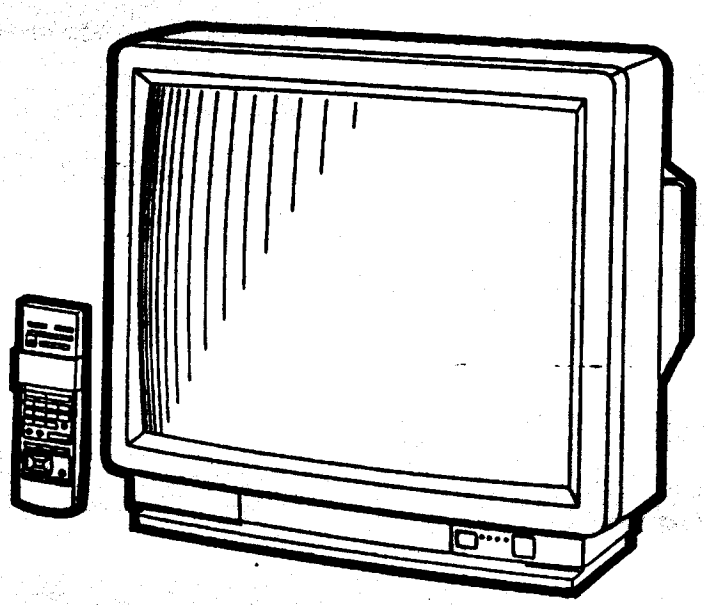
JVC

SERVICE MANUAL

21" COLOUR TV

AV-21F1EK

BASIC CHASSIS
JX



CONTENTS

- SPECIFICATIONS 2
- SAFETY PRECAUTIONS 3
- OPERATING INSTRUCTIONS 4
- SPECIFIC SERVICE INSTRUCTIONS 32
- MAIN PARTS LOCATION 35
- SERVICE ADJUSTMENTS 36
- SCHEMATIC DIAGRAM (APPENDED)
- PARTS LIST 43

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No.50444
Aug.1990

■ Repair and inspection

1. Position the removed chassis as shown in Fig. 6.

Note) When performing the conductivity check, make sure that the CRT ground wire is connected with the ground of the chassis and the CRT socket board.

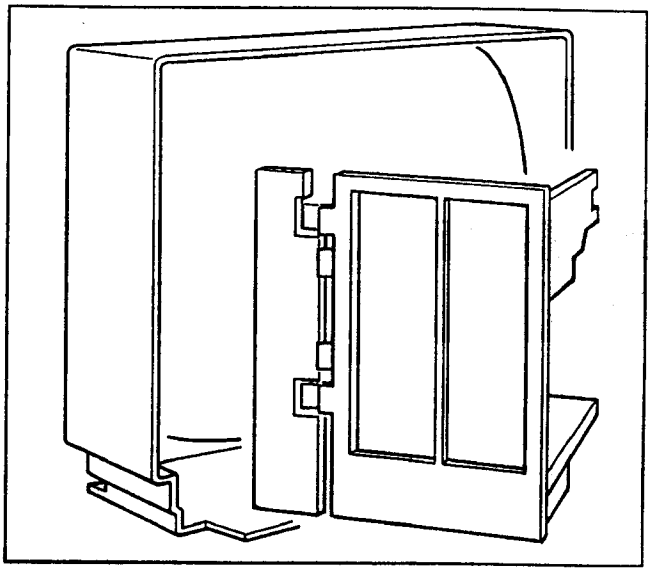


Fig.6 Repair and inspection

■ Concerning wire clamp, cable fastener and connector

1. Clamp the wire securely.
2. Do not remove the cable fastener for wire handling. If it is removed, make sure to replace it in the original position. (Insulating material must be used.)
3. The removed connector must be inserted in the original place.

Note at time of repair

■ Before servicing

1. The user can perform adjustments such as color and bright with this machine.
2. Because of the above, when accepting a repair request, take a record of the contents shown in table 1 beforehand.
3. Restore to the original status after completing repairs.
4. For other User Positions (such as Tone Preset), talk to the user.

TV	EXT-1	EXT-2	EXT-3
Colour	←	←	←
Bright	←	←	←
Cont.	←	←	←
Sharp	←	←	←
Bass	←	←	←
Treble	←	←	←
Balance	←	←	←

Table 1

■ Concerning the repair tool

The printed circuit boards standing on the MAIN BOARD will sometimes make it difficult to check the printed circuit board of this machine.Therefore, the extension tools have been made available for extending the distence between the MAIN BOARD and respestive upright printed circuit boards. The extension tools with Parts No. TV-J001 are provided for the respestive printed circuit boards with one set of jigs being consisting of those for seven printed circuit boards. Consequenrtly, be sure to make effective use of these tools.

Parts No.: TV-J001

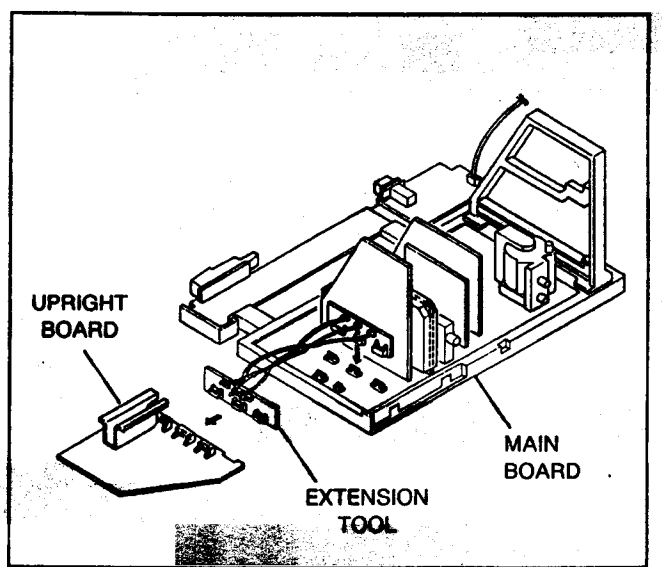
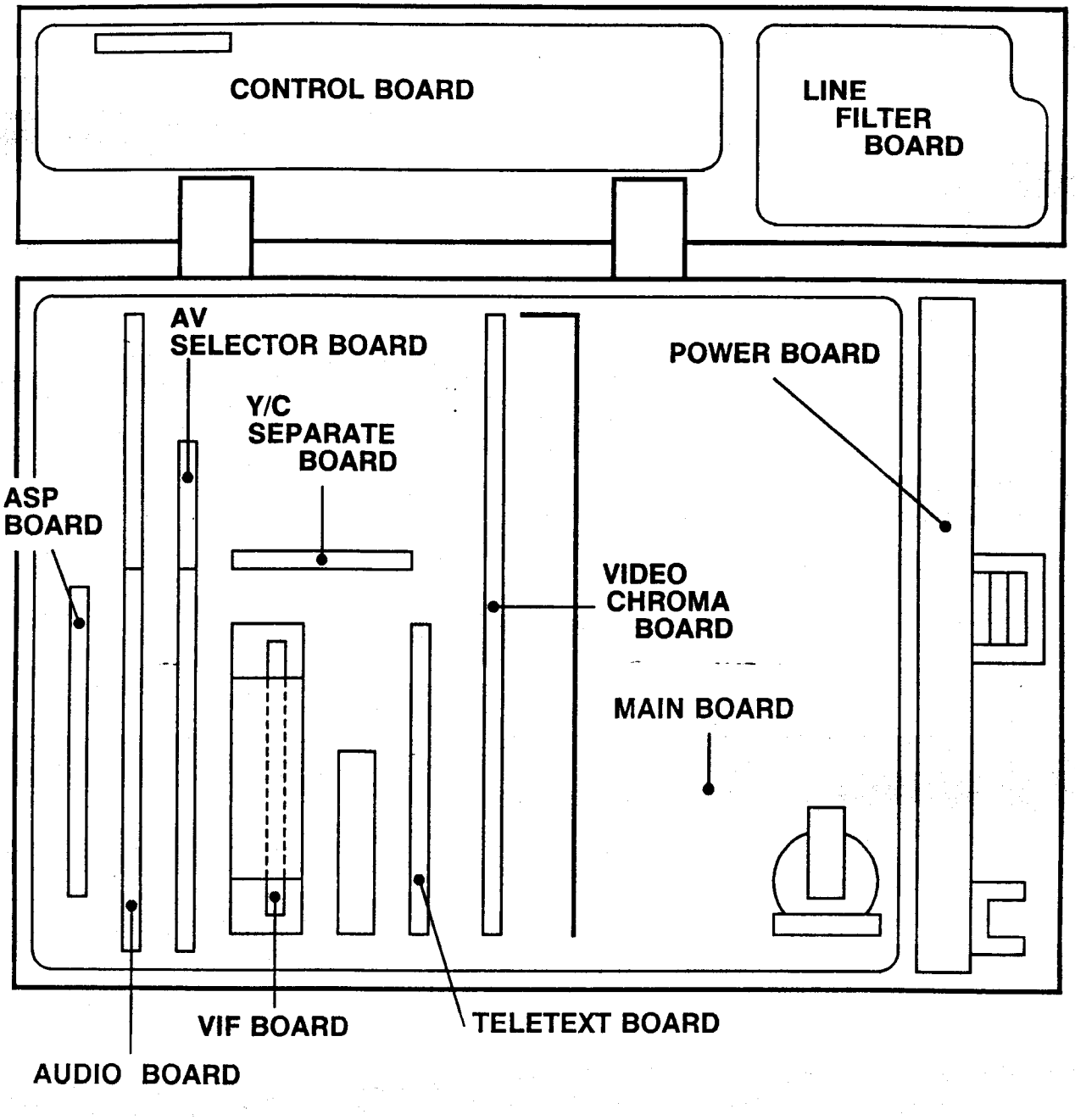


Fig.7 Extension tools

MAIN PARTS LOCATIONS

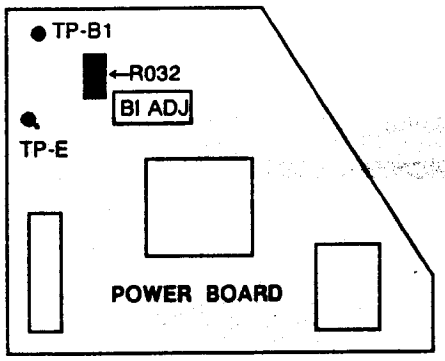


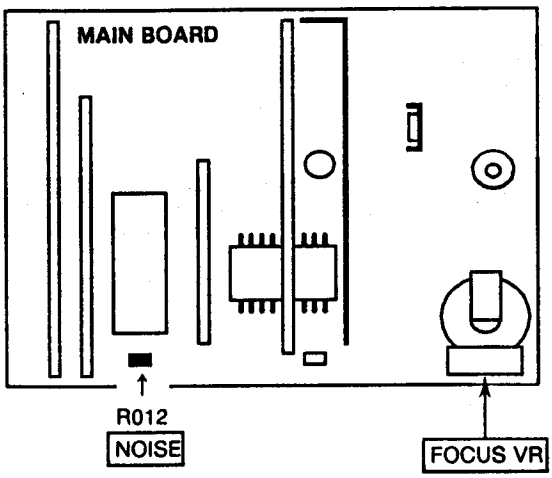
SERVICE ADJUSTMENTS

TOOLS AND FIXTURES FOR ADJUSTMENT

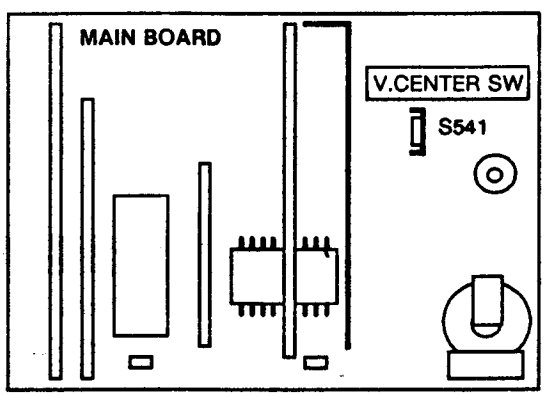
- DC VOLTMETER
- OSCILLOSCOPE
- PATTERN GENERATOR(PAL)

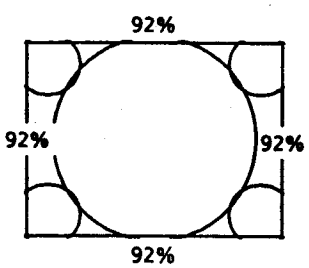
No.	Item	Measuring instrument	Test point	Adjustment part	Description
1	**B1 Voltage adjustment**	**Pattern generator** **Voltmeter**	**TP-B1** **TP-E** **[POWER BOARD]**	**R032 (B1 ADJ)** **[POWER BOARD]**	1. Input cross hatch signals. 2. Connect the voltmeter between TP-B1 and TP-E and check that B1 voltage is 124.0 ± 0.5V. 3. If the voltage is incorrect, adjust R032 (B1 ADJ).
2	**FOCUS adjustment**	**Pattern generator**		**FOCUS VR** **[MAIN BOARD]**	1. Input a cross hatch signal. 2. By watching the screen, adjust the cross hatch using FOCUS VR so that the vertical and horizontal line is the thinnest and clearest possible. 3. Check that focus is clear when the screen is darkened. NOTE Set FOCUS VR to the left (toward low voltage) as much as possible.
3	**NOISE adjustment**			**R012 (NOISE)** **[MAIN BOARD]**	1. Allow noise to appear on the screen using R012 (NOISE). 2. Allow noise to disappear from the screen using R012 (NOISE). 3. Check that there is no abnormality in other channels.

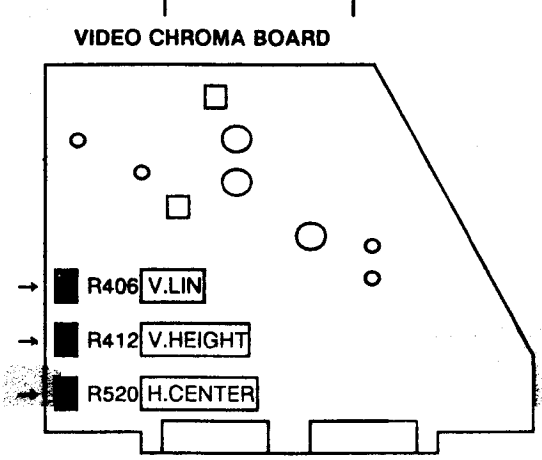


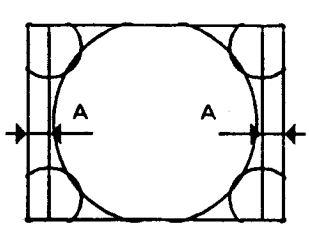


No.	Item	Measuring instrument	Test point	Adjustment part	Description
4	**Vertical linearity · vertical center · vertical amplitude adjustment**	**Pattern generator**		**R406 (V.LIN)** **R412 (V.HEIGHT)** **[VIDEO CHROMA BOARD]** **S541** **(V.CENTER SW)** **[MAIN BOARD]**	1. Input a monoscope signal. (If a monoscope signal is not available, input a cross hatch signal) 2 Using R406 (V.LIN), adjust the upper and lower patterns to make a well-balanced circle. 3. Adjust using S541 (V.CENTER SW) so that the pattern comes to the center of the screen. 4. Adjust using R412 (V.HEIGHT) so that the pattern is 92% of the upper and lower patterns. 5. Repeat steps 2 to 4 as necessary.
5	**Horizontal center adjustment**	**Pattern generator**		**R520 (H.CENTER)** **[VIDEO CHROMA BOARD]**	1. Input a monoscope signal. (If a monoscope signal is not available, input a cross hatch signal) 2. Adjust using R520 (H.CENTER). (A = A) so that the distances from both ends to the vertical lines are equal.

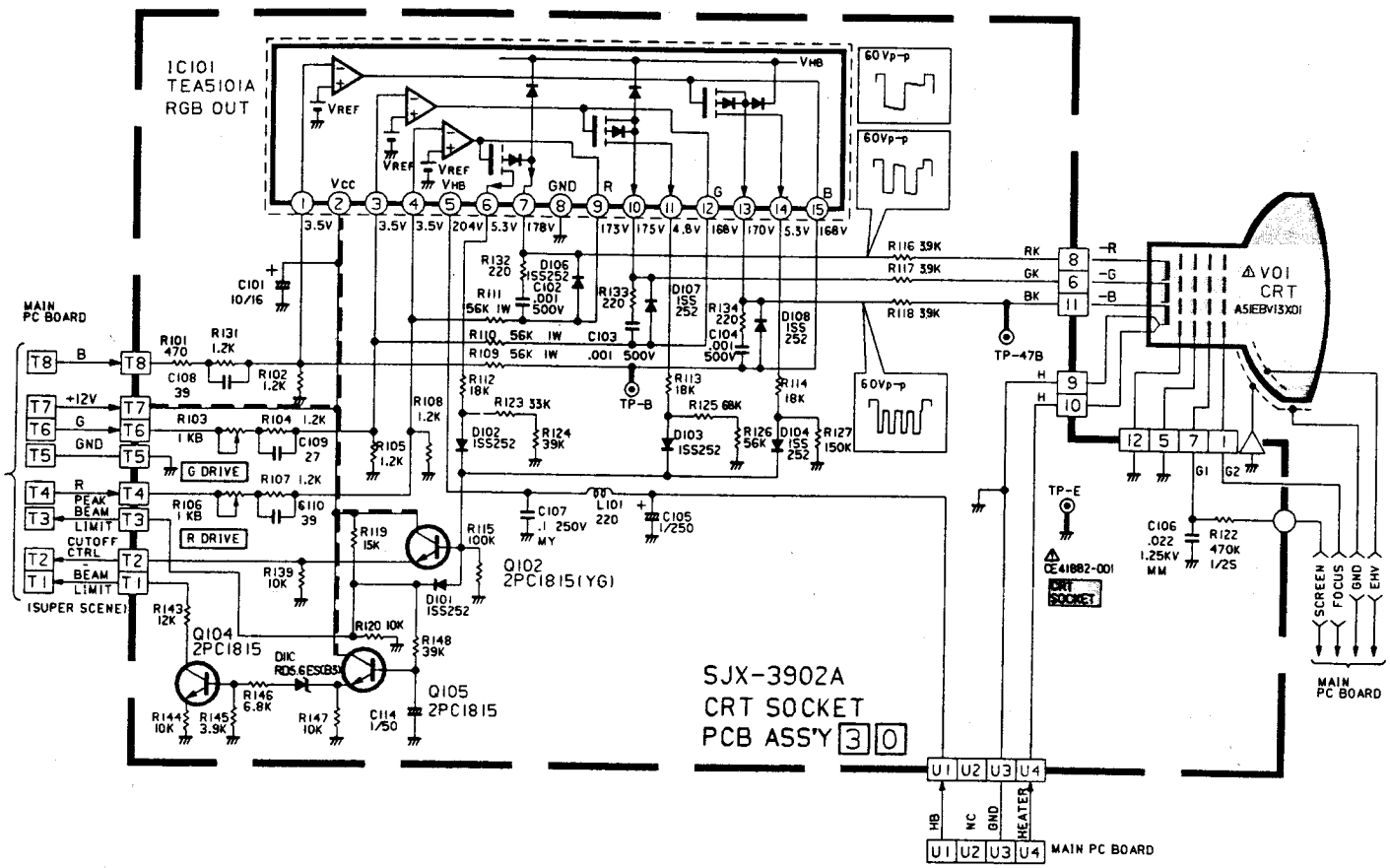


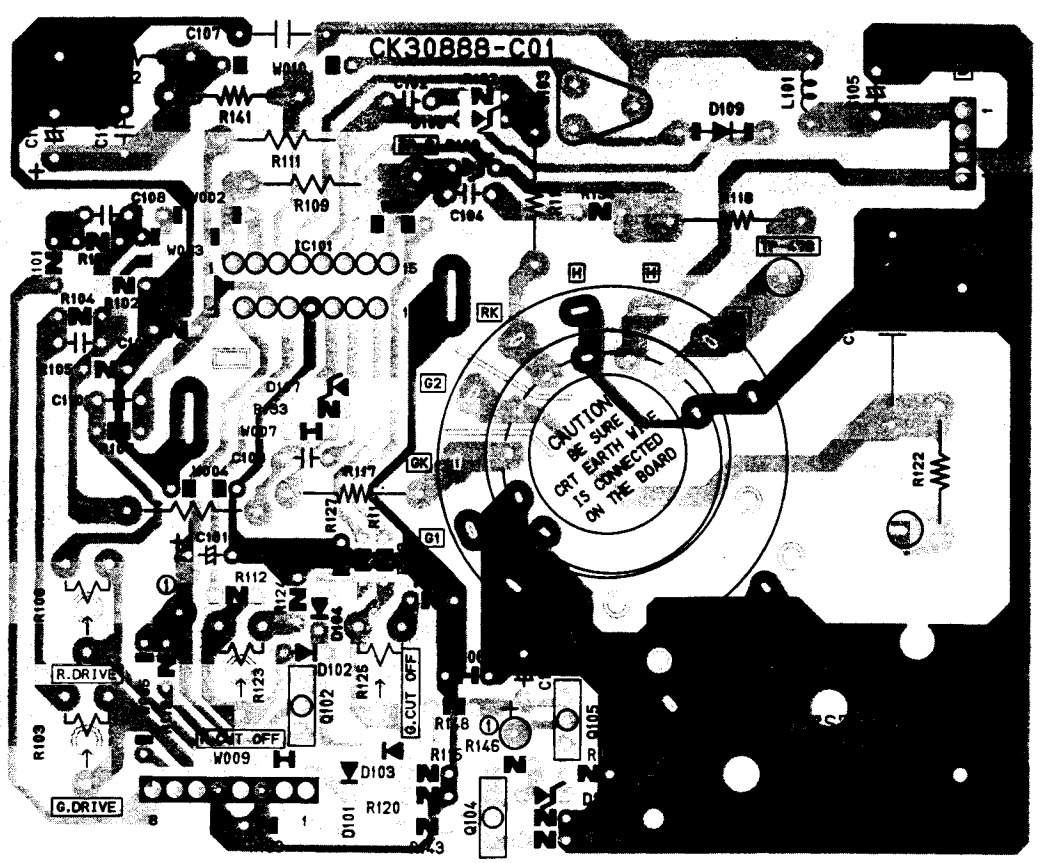






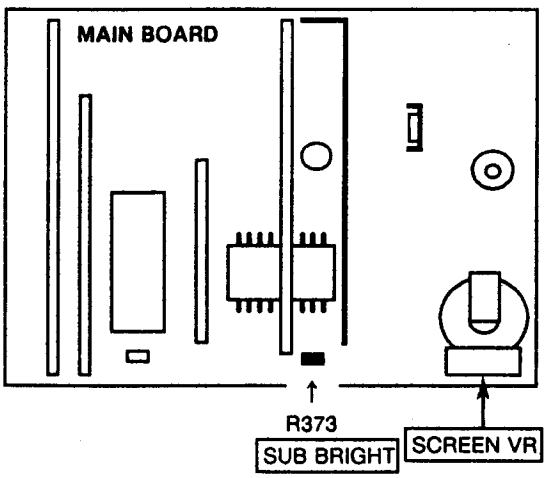
■ CRT SOCKET PCB SCHEMATIC DIAGRAM AND BACK PATTERN

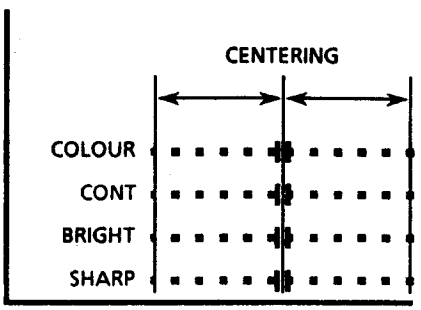


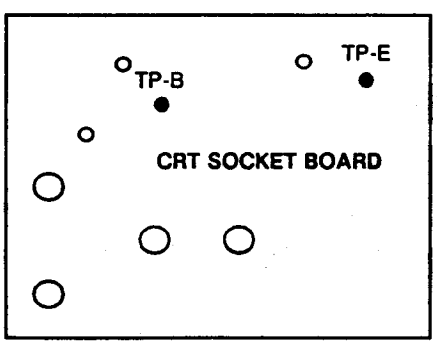


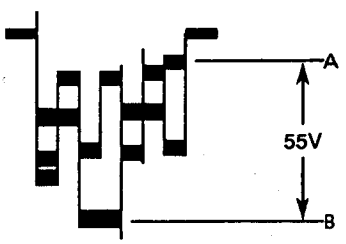
TOP

No.	Item	Measuring Instrument	Test point	Adjustment part	Description
6	**VSM RESET adjustment**	**Remote control (remote control with STANDARD button is ideal)**			Before performing this adjustment, record levels such as COLOUR, CONT, BRIGHT, and SHARP. Restore the previous levels after repair. 1. Obtain the menu with the remote control and set the levels of COLOUR, CONT, BRIGHT and a SHARP to the center. 2. Perform this adjustment with TV, EXT1, EXT2 and EXT3. NOTE When remote control with the STANDARD button is available, just press the TV, EXT1, EXT2 and EXT3 buttons of STANDARD.
7	**SUB BRIGHT adjustment**	**Pattern generator**		**R373 (SUB BRIGHT) [MAIN BOARD]**	Prior to starting this adjustment,complete adjustment of VSM RESET ,and set the VSM level to the center. 1. Input black signal. 2. Adjustment is performed using R373 (SUB BRIGHT) just before the screen begins to brighten.
8	**SUB CONTRAST adjustment**	**Pattern generator** **Oscilloscope**	**TP-B [CRT SOCKET BOARD]**	**R387 (SUB CONT) [MAIN BOARD]**	Prior to starting this adjustment,complete adjustment of VSM RESET ,and set the VSM level to the center. 1. Input a split color bar signal. 2. Connect the oscilloscope with TP-B. 3. Adjust the voltage between A – B to be 55V using R387 (SUB CONT).

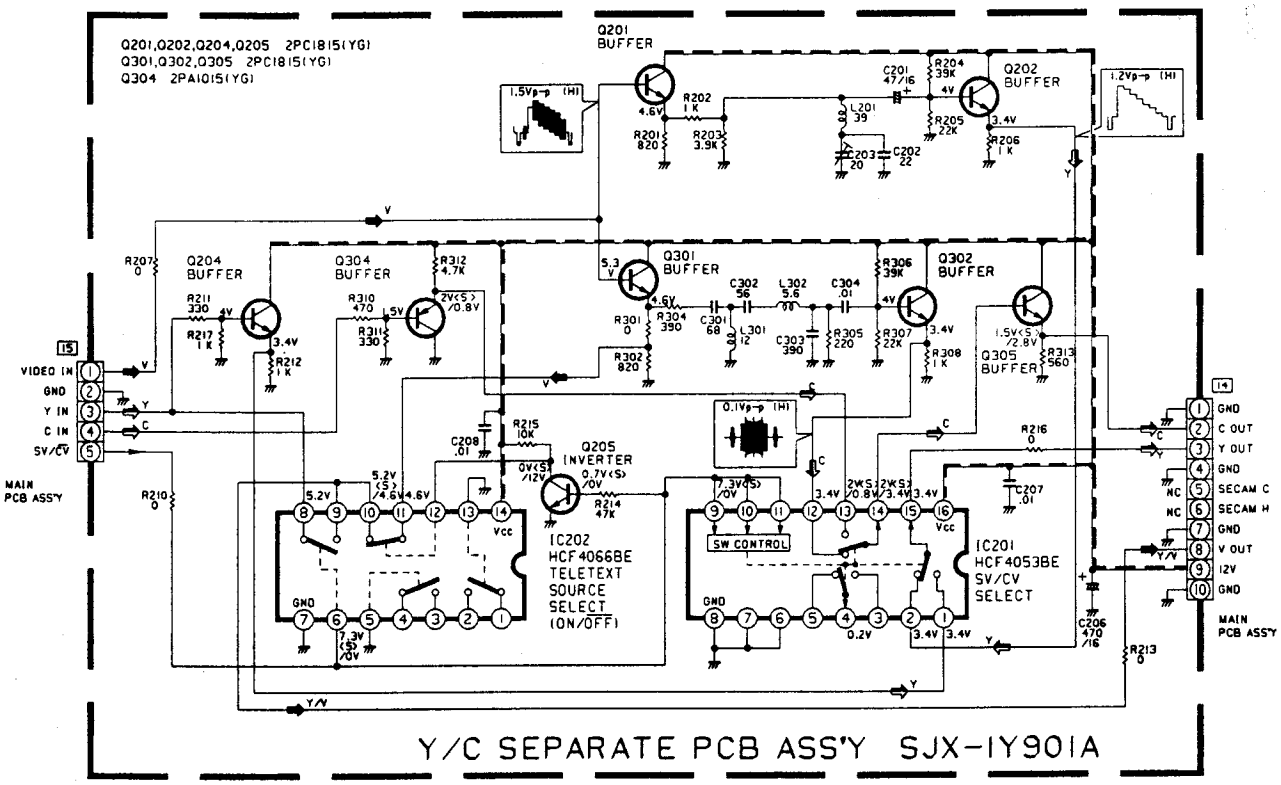


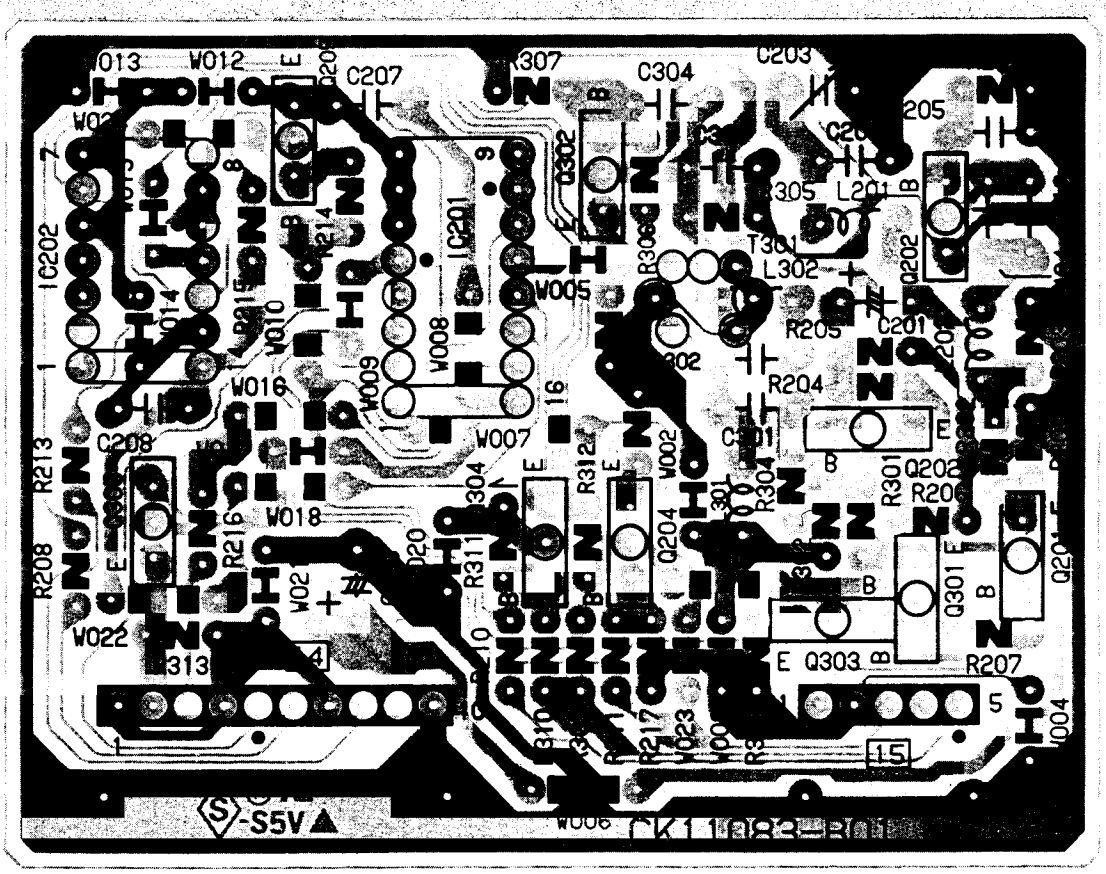




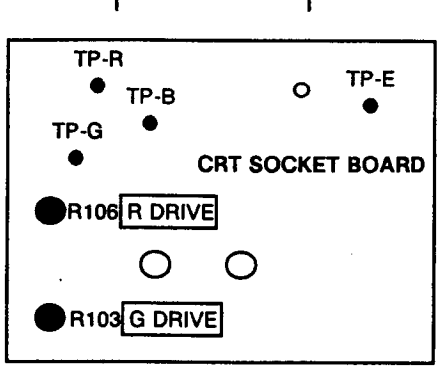


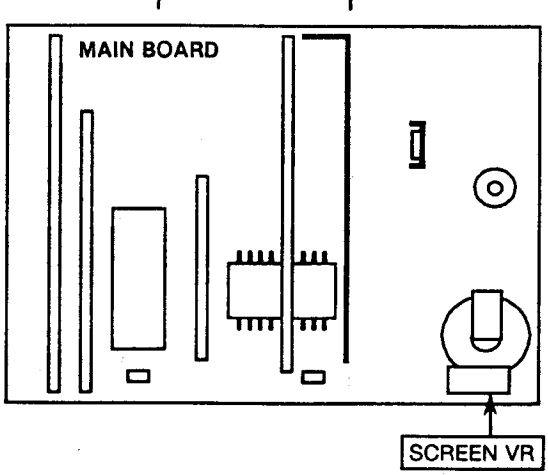
■ Y/C SEPARATE PCB SCHEMATIC DIAGRAM AND BACK PATTERN

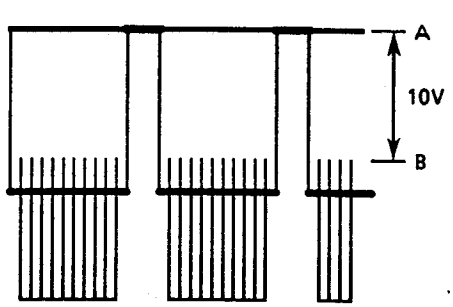




No.	Item	Measuring instrument	Test point	Adjustment part	Description
9	HIGHT LIGHT adjustment	Pattern generator		R106 (R DRIVE) R103 (G DRIVE) [CRT SOCKET]	1. Input white signal. 2. Adjust the whole screen to white using R106 (R DRIVE) and R103 (G DRIVE). < When monoscope signal and color analyzer are available > 1. Input a monoscope signal. 2. Point the OPTICAL SENSOR of the color analyzer at the center of the screen. 3. Adjust so that the indicated value of the color analyzer is color temperature 9300°K (X = 0.290, Y = 0.291).
10	SCREEN adjustment	Pattern generator Oscilloscope	TP-B TP-G TP-R TP-E [CRT SOCKET BOARD]	SCREEN VR [MAIN BOARD]	This adjustment should be performed after adjusting the HIGH LIGHT. 1. Input a cross hatch signal. 2. Connect the oscilloscope with TP-B, TP-G and TP-R and fully rotate the SCREEN VR to the left, then rotate it to the right little by little until line A does not move. 3. In the 3 test points, adjust the distance between A – B to be a minimum of 10V.







AV-21F1EK SCHEMATIC DIAGRAM

1. NOTES ON USING SCHEMATIC DIAGRAMS

■ NOTICE

Voltage values and waveforms are measured by respectively receiving and displaying on the screen the colour bars signals of the PAL.

[Voltage value display method]

The voltage values indicated within the circuits denote those obtained when PAL colour bar signals are received and displayed on the screen.

The measurements were made with each VR under the condition just after the shipment. The figures of the signal circuits may be more or less different after adjustments, so use the figures simply for reference.

Multimeter used

DC 20 kΩ/V

Given figures are all DC voltages.

Sweep speed of oscilòscope

H ⇒20μS/div

V ⇒5mS/div

Others ⇒Sweeping time is indicated

Since the schematic diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

■ SAFETY

FR (-WWW- FR) denotes a fusible resistor which operates as a fuse. When replacing fusible resistors and parts indicated with black shading (▒▒) in the circuit diagrams, be sure to ensure safety by using designated parts.

As to other parts too, use designated parts to maintain safety and performance.

■ INDICATION OF PARTS SYMBOL

Inside board (Example) SJX-1902B : R1209⇒R209

SJX-1A901A: R209⇒R209

■ CIRCUIT DIAGRAM DISPLAY SYMBOLS

1. Resistor

- Resistance value

When no unit is provided : [Ω]

K : [kΩ]

M : [MΩ]

- Rated permissible power capacity

When no display is made : 1/6 [W]

Others : Display are provided

- **Type**

Without indication	: Carbon resistor
OMR	: Oxide metal film resistor
UNFR	: Non-Flammable resistor
CMF,MFR	: Coating metal film resistor
FR	: Fusible resistor

*Composition resistor 1/2 [W] is indicated as "1/2S" or "Comp".

2. Capacitor

- Capacity

Over 1 [pF] Below 1 [μF]

- Withstand voltage

No display : DC 50 [V]

Others : DC withstand voltage [V]

AC display : AC withstand voltage [V]

- Display of electrolytic capacitor is as follows.

(Example)

47/50⇒Capacity [μF] /withstand voltage [V]

*NP : Non-polar (or Bipolar) electrolytic capacitor.

- Type

No type display indication	: Ceramic capacitor
MY	: Mylar capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
NP	: Nonpolar electrolytic capacitor
BP	: Bipolar electrolytic capacitor
TAN.	: Tantalum capacitor

3. Coil

When no unit is displayed : [μH]

4. Power supply

▬▬ : 12V

▭▭ : 5V

*Respective voltage values are indicated.

5. Test point & GND. symbol

: Test point of mini-GP pin

: Only test point display

: LIVE side ground

: NEUTRAL side ground

: EARTH ground

6. Connecting method

: Connector

: Wrapping or soldering

: Receptacle

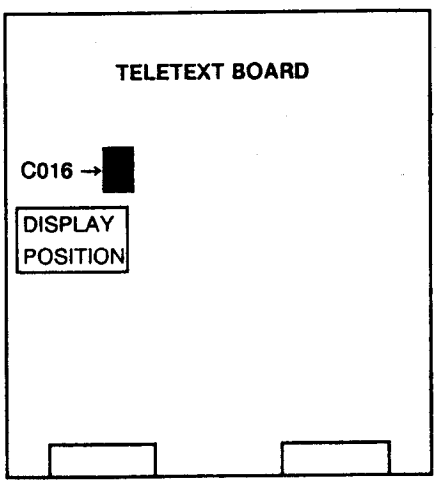
NOTE FOR SERVICE

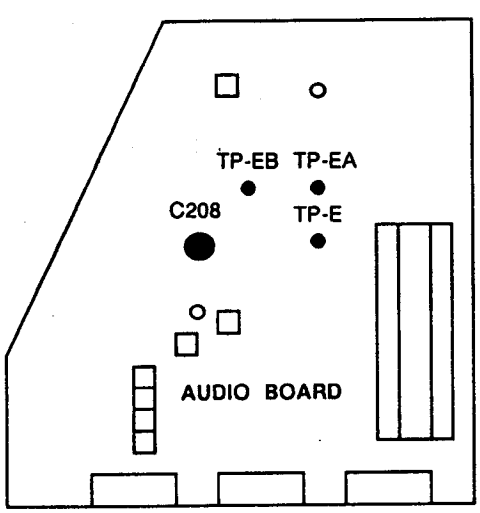
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (primary: ⊥) side GND and the NEUTRAL (secondary: ⏚) side GND.

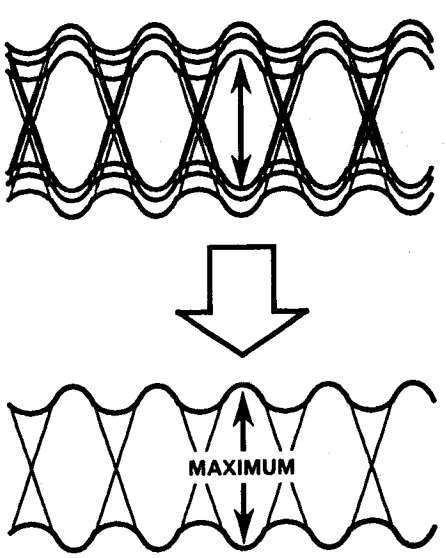
Don't short between the LIVE side GND and NEUTRAL side GND or never measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

No.	Item	Measuring instrument	Test point	Adjustment part	Description
14	CLOCK adjustment	Remote control		C016 (DISPLAY POSITION) [TELETEXT BOARD]	1. Receive a TELETEXT signal. 2. Set TELETEXT and AIR signals to in mix mode with the remote control. 3. Adjust using C016 (DISPLAY POSITION) so that the character screen and TV screen of TELETEXT do not flow in a horizontal direction.
15	EYE PATTERN adjustment	Oscilloscope	TP-EA TP-EB [AUDIO BOARD]	C208 [AUDIO BOARD]	1. Input a digital voice signal. 2. Connect the oscilloscope with TP-EA. 3. As shown in the figure, adjust using C208 so that the inside of the EYE PATTERN waveform is the maximum. 4. Connect the oscilloscope with TP-EB. 5. Check that the inside of the EYE PATTERN waveform is the maximum, the same as the above. 6. Repeat steps 2 to 5 as necessary.







PARTS LIST

CAUTION

- The parts marked ⚠ are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The module circuit board is supplied together with the assembly, but the parts which do not have the drawing in this Parts List, P. C. Board Ass'y and the Parts No. columns of which are filled with lines —— . will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

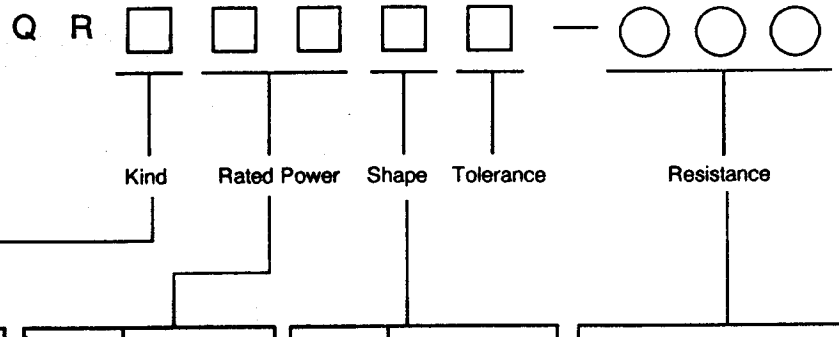
(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% - 10%	+50% - 10%	+80% - 20%	+100% - 0%

(NOTE 2) HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



Symbol	Part Name
C	COMP.R
D	C R
S	CH MG R

Symbol	Rated Power
0 1	1 w
1 2	1/2 w
1 4	1/4 w
1 6	1/6 w
1 8	1/8 w

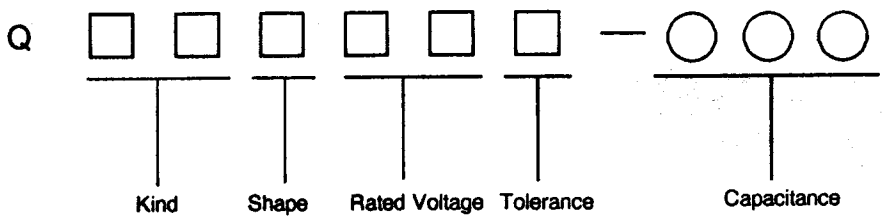
Symbol	Shape
1	Straight lead
8	Chip

Indicate with first two-figure expressed by Ω and following 0.
please note that,in case of resistance less than 10 Ω, a letter "R"will be effective as point.

EX.

2.2 Ω = 2R2
470 Ω = 47×10^{1} → 471
150kΩ = 15×10^{4} → 154

■ CAPACITOR



Symbol	Part Name
CS	C CAP.
CS	CH C CAP.
ET	E CAP.
FM	M CAP.

5Figure / 6Figure	0	1	2
A		10V	100V
C		16V	160V
D			200V
E		25V	250V
H		50V	500V
J	6.3V	63V	
V		35V	

Indicate with first two-figure expressed by pF and following 0.
Please note that,in case of capacitance less than 10 pF a letter "R" will be effective as point.

EX

5pF = 5R0
1000pF = 10×10^{2} → 102
47μF = 47×10^{6} → 476

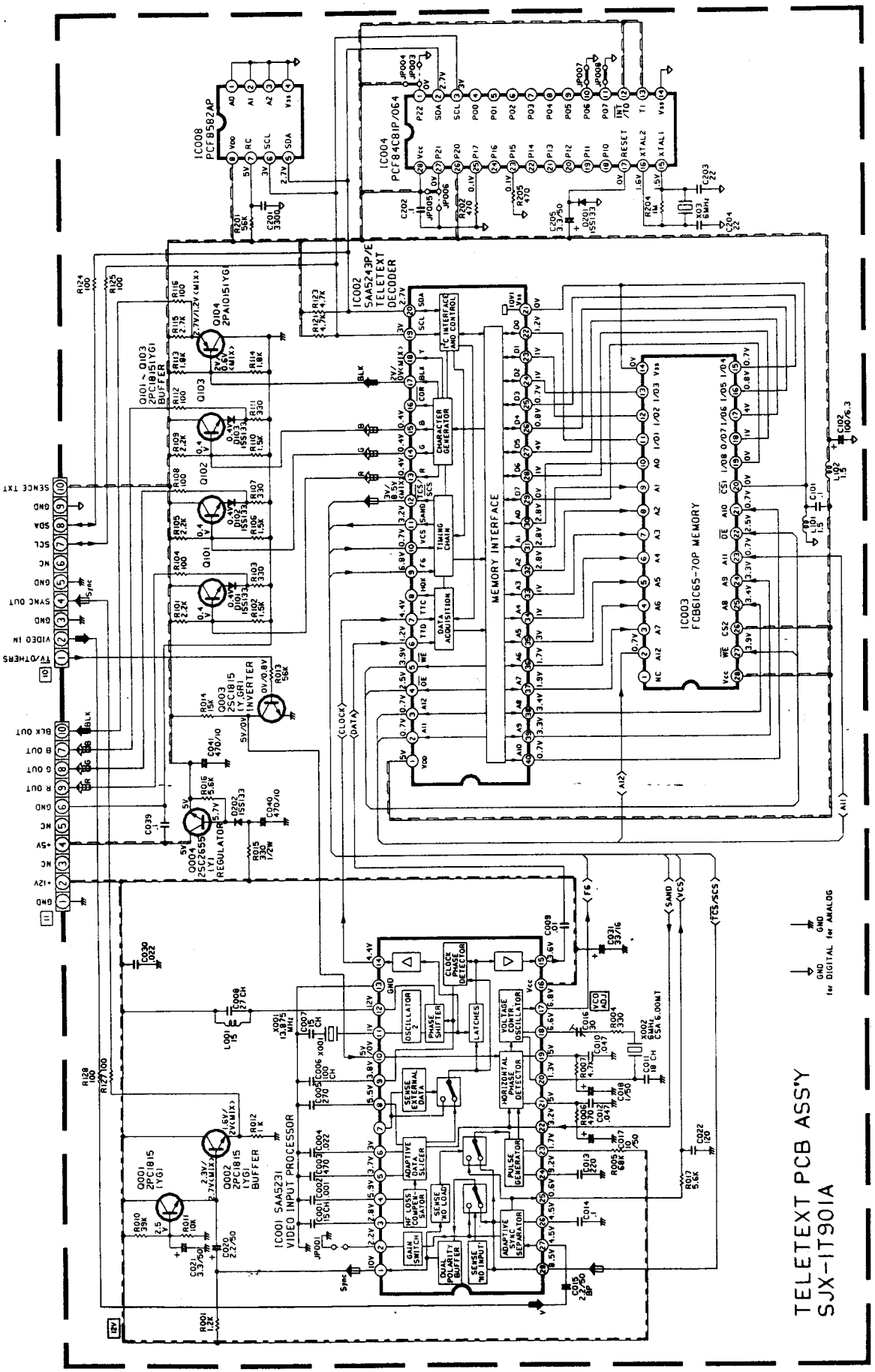
Symbol	Shape
1	Straight lead
1	Leads in the same direction
8	Chip
A	Leads in the same direction (compact part)

MAIN PARTS LIST

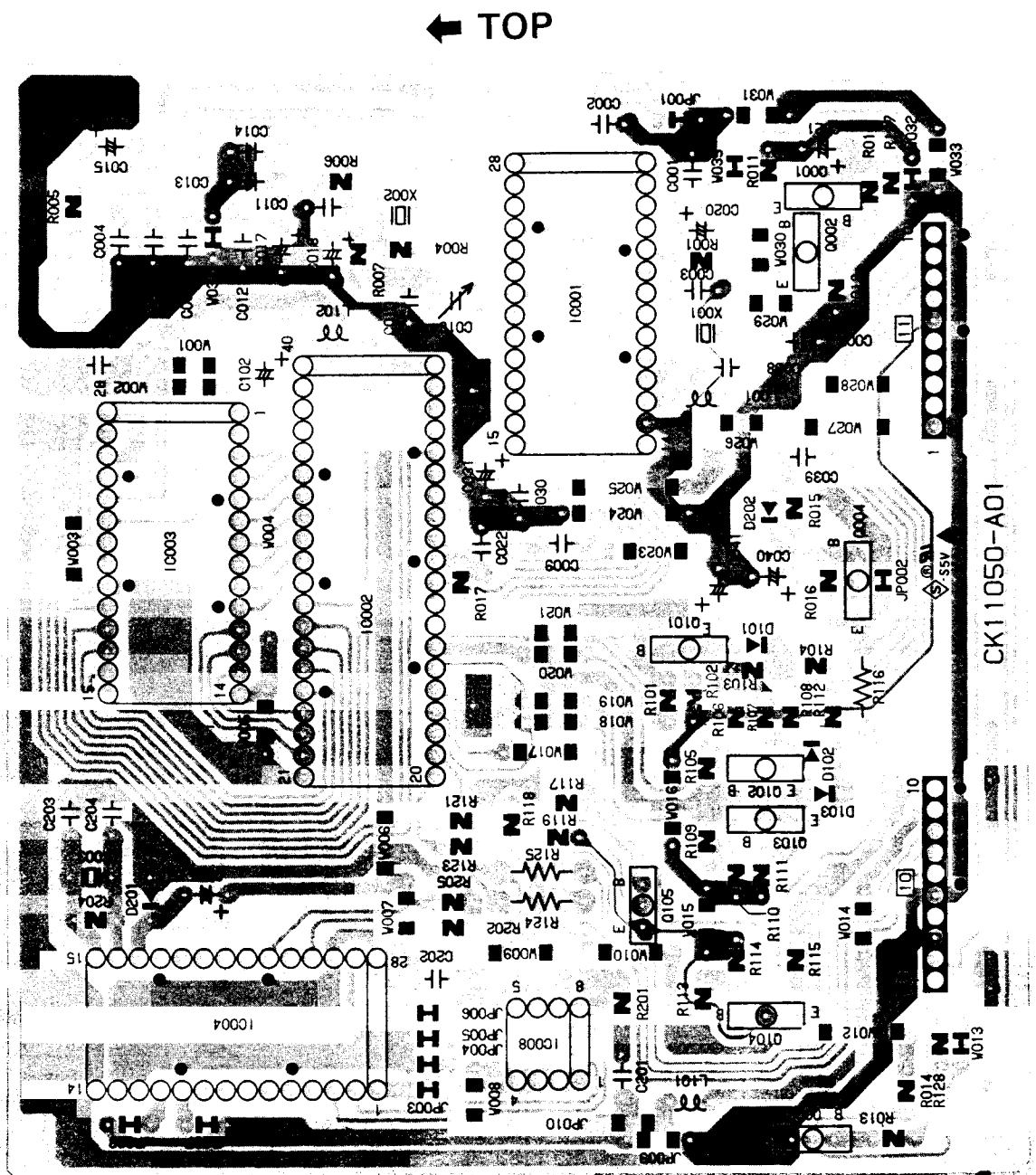
SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS
CRT & TUNER				
	⚠	CELD018-003J2	DEGAUSSING COIL	L01 *
TU1001		CEEK350-B01-U	UHF E TUNER	*
	⚠	A51EBV13X01	PICTURE TUBE	Inc. DY, Magne, Wedge *
VARIABLE R				
R1012		QVPA603-223AZ	V R (NOISE)	22kΩ B
R1373		QVPA603-103AZ	V R (SUB BRIGHT)	10kΩ B
R1387		QVPA601-473A	V R (SUB CONTRAST)	47kΩ B
R2032		QVPA603-332AZ	V R (B1 ADJ.)	3.3kΩ B
R3103		QVPC802-102H	V R (G. DRIVE)	1kΩ B
R3106		QVPC802-102H	V R (R. DRIVE)	1kΩ B
R258		QVPA601-103A	V R (Y LEVEL)	10kΩ B
R303		QVPA601-472A	V R (PAL SUB COLOR)	4.7kΩ B
R351		QVPA601-222A	V R (PAL DL GAIN)	2.2kΩ B
R406		QVPA603-473AZ	V R (V. LIN)	47kΩ B *
R412		QVPA603-221AZ	V R (V. HEIGHT)	220 Ω B
R520		QVPA603-473AZ	V R (H. CENTER)	47kΩ B *
TRANSFORMER				
T1501		CE40895-00A	H DRIVE TRANSF	
DIODE				
D001		MA4100 (M) -T2	ZENER DIODE	*
D101		GL2HY6	L E D (YLW)	S Video
D101		RD13JS (B) -T2	ZENER DIODE	*
D102		GL2NG6	L E D (GRN)	Stereo
D102		RD13JS (B) -T2	ZENER DIODE	*
D103		GL2HS6	L E D (ORG)	On Timer
D103		RD13JS (B) -T2	ZENER DIODE	*
D104		GL2PR6	L E D (RED)	Power
D151		RD13JS (B) -T2	ZENER DIODE	*
D152		RD13JS (B) -T2	ZENER DIODE	*
D155		RD13JS (B) -T2	ZENER DIODE	*
D156		RD13JS (B) -T2	ZENER DIODE	*
D201		RD13JS (B) -T2	ZENER DIODE	*
D202		RD13JS (B) -T2	ZENER DIODE	*
D203		RD13JS (B) -T2	ZENER DIODE	*
D204		RD13JS (B) -T2	ZENER DIODE	*
D205		RD13JS (B) -T2	ZENER DIODE	*
D301		RD13JS (B) -T2	ZENER DIODE	*
D302		RD13JS (B) -T2	ZENER DIODE	*
D303		RD13JS (B) -T2	ZENER DIODE	*
D303		KV1310	VARI CAP DIODE	
D304		RD13JS (B) -T2	ZENER DIODE	*
D305		RD13JS (B) -T2	ZENER DIODE	*
D306		RD13JS (B) -T2	ZENER DIODE	*
D332		MA4033 (M) -T2	ZENER DIODE	*
D501	⚠	MA4068 (N) C1-T2	ZENER DIODE	*
D503		MA4120 (M) -T2	ZENER DIODE	*
D507		RD4.7E (B3)	ZENER DIODE	
D901		RD11E (B2) -T2	ZENER DIODE	*
D1001		MA4330 (M) -T2	ZENER DIODE	*
D1351		RD12ES (B) -T2	ZENER DIODE	*
D1352		RD12ES (B) -T2	ZENER DIODE	*
D1353		RD12ES (B) -T2	ZENER DIODE	*
D1547		MA4120 (M) -T2	ZENER DIODE	*
D2001	⚠	D3SB60	BRIDGE DIODE	
D2003		RD3.0F (B2) -T3	ZENER DIODE	*
D2032		RD6.2E (B2) -T2	ZENER DIODE	*
D3110		RD5.6ES (B3) -T2	ZENER DIODE	*
D8011		RD13JS (B) -T2	ZENER DIODE	*

SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS	
D8012		RD13JS (B) -T2	ZENER DIODE		*
D8013		RD13JS (B) -T2	ZENER DIODE		*
D8014		RD13JS (B) -T2	ZENER DIODE		*
D8015		RD13JS (B) -T2	ZENER DIODE		*
D8016		RD13JS (B) -T2	ZENER DIODE		*
D8017		RD13JS (B) -T2	ZENER DIODE		*
D8018		RD13JS (B) -T2	ZENER DIODE		*
IC					
IC001		SAA5231	I. C.		*
IC001		HCF4081BE	I. C.		*
IC002		SAA5243P/E	I. C.		*
IC002		HCF4081BE	I. C.		*
IC003		FCB61C65-70P	I. C.		*
IC004		PCF84C81P/064	I. C.		*
IC008		PCF8582AP	I. C.		*
IC101		GP1U521R	I. C.		
IC101		HCF4066BE	I. C.		*
IC101		M51365SP	I. C.		
IC101		M51496P	I. C.		
IC151		HCF4066BE	I. C.		*
IC152		HCF4066BE	I. C.		*
IC201		HCF4053BE	I. C.		*
IC201		M51494L	I. C.	[redacted]	
IC201		TA8662N	I. C.		
IC202		HCF4066BE	I. C.		*
IC202		HCF4053BE	I. C.		*
IC203		M52025SP	I. C.		
IC301		TDA1029	I. C.		*
IC301		M65109BSP	I. C.		
IC302		HCF4066BE	I. C.		*
IC302		TDA4565	I. C.		*
IC401		SM5807EP	I. C.		
IC402		TDA1543A	I. C.		*
IC403		NE4558N	I. C.		*
IC501		TDA3810	I. C.		*
IC501		LM324N	I. C.		*
IC502		TDA1029	I. C.		*
IC531		VUC2003	I C		
IC591		L7812ABV	I C		*
IC701		LA7210	I. C.		
IC751		TDA1526	I. C.		*
IC801		TA8216H	I. C.		
IC851		M5218P	I. C.		
IC911		L7805ABV	I. C.		*
IC1301		AN5862K	I. C.		
IC1302		AN5862K	I. C.		
IC1351		TDA4580	I. C.		*
IC1521	⚠	L7812ABV	I. C.		*
IC1522	⚠	L7805ABV	I. C.		*
IC1541		TDA3653C	I. C.		*
IC1701		M37102M8-A49SP	I. C.		
IC1702		M6M80041P	I. C.		
IC1703		MN1280-Q	I. C.		
IC1704		HCF4049UBE	I. C.	or HCF4049UBE	*
IC1705		MC78L05ACP	I. C.	or MC78L05ACP	*
IC1901		L7812ABV	I. C.		*
IC2001		TEA2261	I. C.		*
IC2002	⚠	CNX82A	I. C.		*
IC3101		TEA5101A	I. C.		*
IC8001		TC4049BP	I. C.		

■ TELETEXT PCB SCHEMATIC DIAGRAM AND BACK PATTERN



SYMBOL NO.	⚠	PART NO.	PART NAME	REMARKS
OTHERS				
		CM34564-A01-E	POWER KNOB	*
		CM11771-C01-ME	REAR COVER	*
		CM11900-00A-E	SP GRILL ASSY (L)	Include No. 201, 304 *
		CM11900-00B-E	SP GRILL ASSY (R)	Include No. 301~309 *
		CM46617-001-E	POWER KNOB	*
	⚠	QMP4C00-200J9	POWER CORD	*
CP1901	⚠	ICP-N10-Y	I. C. PROTECT	*
F9901	⚠	QMF51E2-3R15S	FUSE	3.15A
LF2001	⚠	CE41890-001	LINE FILTER	
LF9901	⚠	A39475-G	LINE FILTER	
LF9902	⚠	CE41893-001J1	LINE FILTER	*
R1521	⚠	QRH017J-470M	F R	47 Ω 1W J
R1523	⚠	QRH027J-1R8M	F R	1.8 Ω 2W J
R1524	⚠	QRH027J-1R8M	F R	1.8 Ω 2W J
R1525	⚠	QRH027J-1R8M	F R	1.8 Ω 2W J
R1526	⚠	QRZ0054-470M	F R	47 Ω 1/4W J
R1527	⚠	QRH017J-6R8M	F R	6.8 Ω 1W J
R1532	⚠	QRH127J-1R8M	F R	1.8 Ω 1/2W J
S1541		QSL4A13-C02	LEVER SWITCH	V. CENTER
S8002		QSP4H11-C06	PUSH SWITCH	Function
S8003		QSP4H11-C06	PUSH SWITCH	CH-
S8004		QSP4H11-C06	PUSH SWITCH	CH+
S8005		QSP4H11-C06	PUSH SWITCH	VOL-
S8006		QSP4H11-C06	PUSH SWITCH	VOL+
S8007		CESP004-001J1	PUSH SWITCH	Sub Power *
S9901	⚠	QSP4D21-C06	PUSH SWITCH	Main Power
TH2001	⚠	CE41884-001J1	W-PTC	*
X1751		CE41887-001	CRYSTAL	
CF601		A75111-C	CERAMIC FILTER	
CF602		A75111-C	CERAMIC FILTER	
CP591	⚠	ICP-N10-Y	IC PROTECTER	*
CP901	⚠	ICP-N15	IC PROTECTOR	
DL301		CE41881-001J1	DELAY LINE	*
J801		CEMT007-001J1	EXT SP TERMINAL	*
R506	⚠	QRH017J-4R7M	F R	4.7 Ω 1W J
R901	⚠	QRH127J-3R3M	F R	3.3 Ω 1/2W J
SF101		CE40454-302	SAW FILTER	
SF1.01		CE41031-301	SAW FILTER	
SW801		QSS4C22-C04	SLIDE SWITCH	Speaker Select SW
X001		CE41257-001J1	CRYSTAL	*
X002		CSA6.00MT	CERAMIC FILTER	
X003		CE41258-A01J1	CRYSTAL	*
X201		CE41845-001	CRYSTAL	
X202		CE41540-001	CRYSTAL	
X301		CE41115-001	CRYSTAL	
X501		CSB500F9	CERAMIC RESONATOR	


TOP
CK11050-A01

SPECIFICATIONS

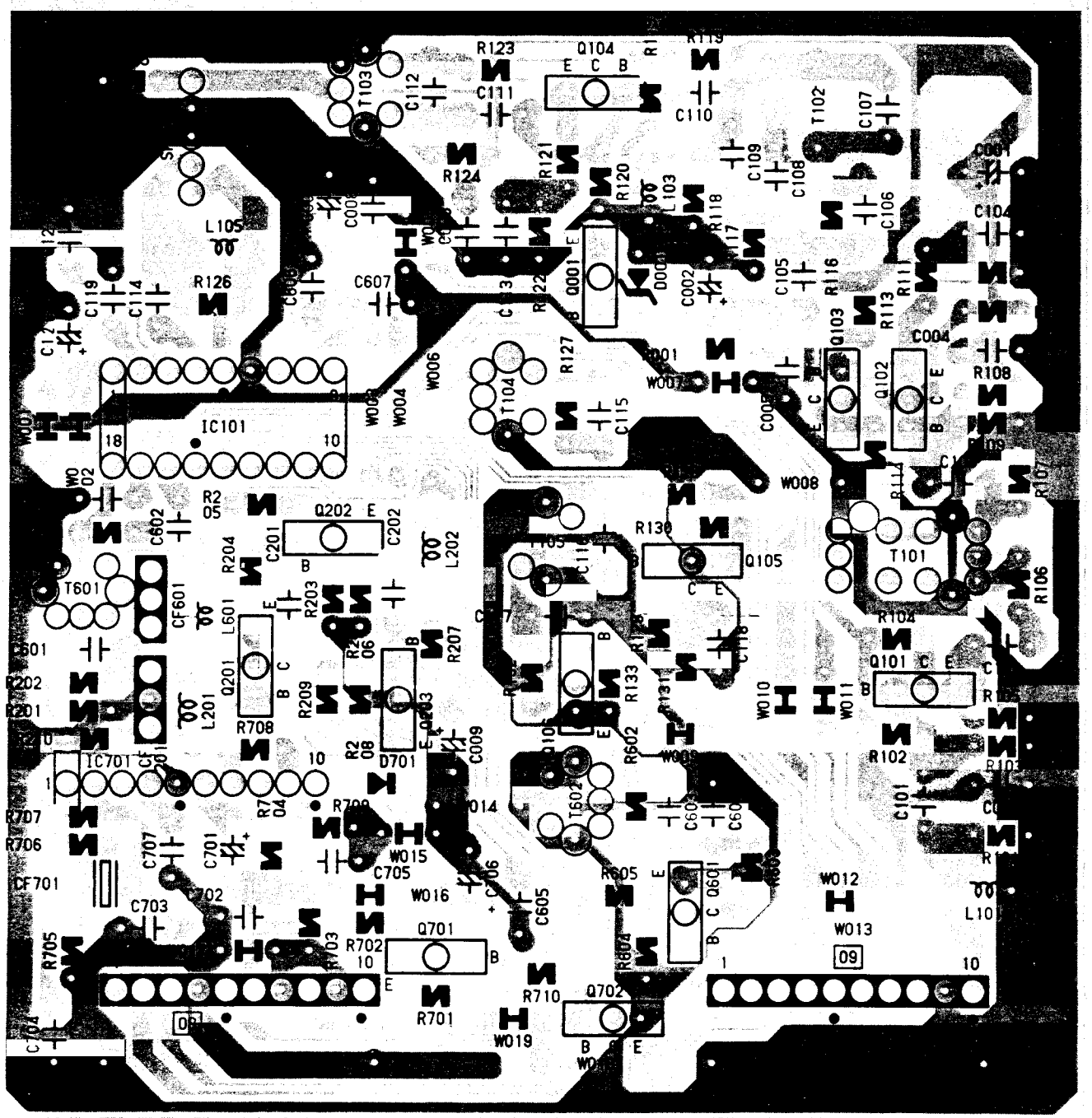
Item	Content
Type	Colour Television
TV RF System	CCIR I
Color System	PAL
Stereo System	NICAM (I system)
TEXT System	FLOF (United Kingdom system)
Number of Program Channel	00(AV), 01～99
Recieving Channel and Frequency	Channel = UHF 21～69ch
	Frequency = 470MHz～862MHz
Intermediate Frequency	V.IF = 39.5MHz, S.IF = 33.5MHz
Colour Sub Carrier	4.43MHz
Aerial Input Impoedance	75Ω,Unbalanced
Power Input	AC 220～240V,50Hz
Power Consumption	110W
Size of Picture Tube	51cm
	diagonally measured;FST (Flat-square tube)
Audio Power Output	
Peak Music Power	30W + 30W (Speaker select switch set to "INT + EXT",when 8Ω external speakers connected.)
	20W + 20W (Speaker select switch set to "INT + EXT")
Music Power	15W + 15W (Speaker select switch set to "INT + EXT",when 8Ω external speakers connected.)
	10W + 10W(Speaker select switch set to "INT + EXT")
Speaker	10cm Round ×2, 3cm Round ×2
Conection Terminal	
EXT 1	21pin Euroconnector (SCART)
EXT 2	21pin Euroconnector (SCART)
	Accepts Y/C separated signals,
EXT 3	Y/C separate video input connector
	Audio input connector(RCA)
	Direct connection(front / rear)
Variable Audio Outout connectors	RCA, More than 0-2Vrms, low impedance (1kHz when modulated 80%)
Sperker Terminals	External Speaker, Impedance = 8～16Ω
Dimensions (W×H×D)	505×471×495mm
Weight	24.3kg
Accessories	Remote control unit (RM-C861-E)×1
	"AA (R6)" size dry cell battery ×2

Design & specification subject to change without notice.

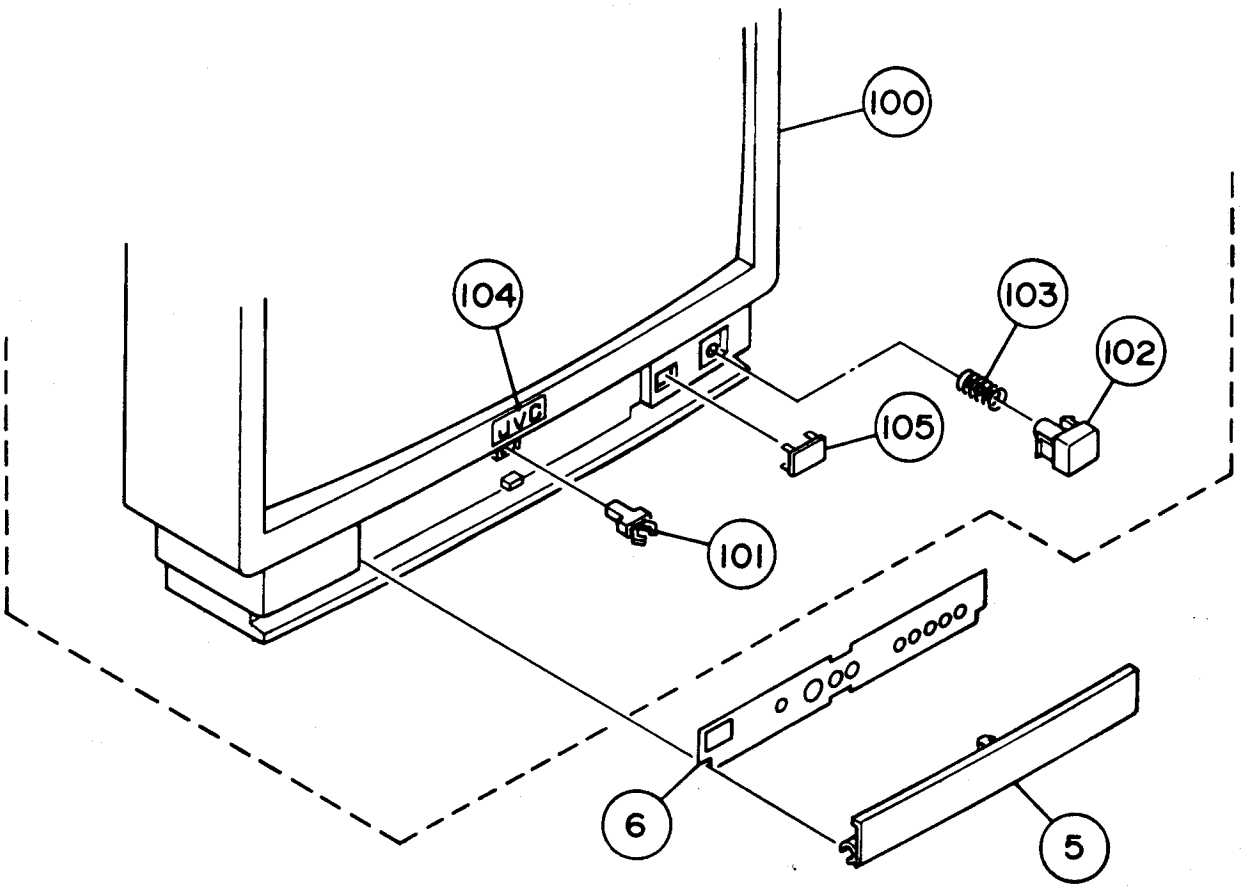
TOP

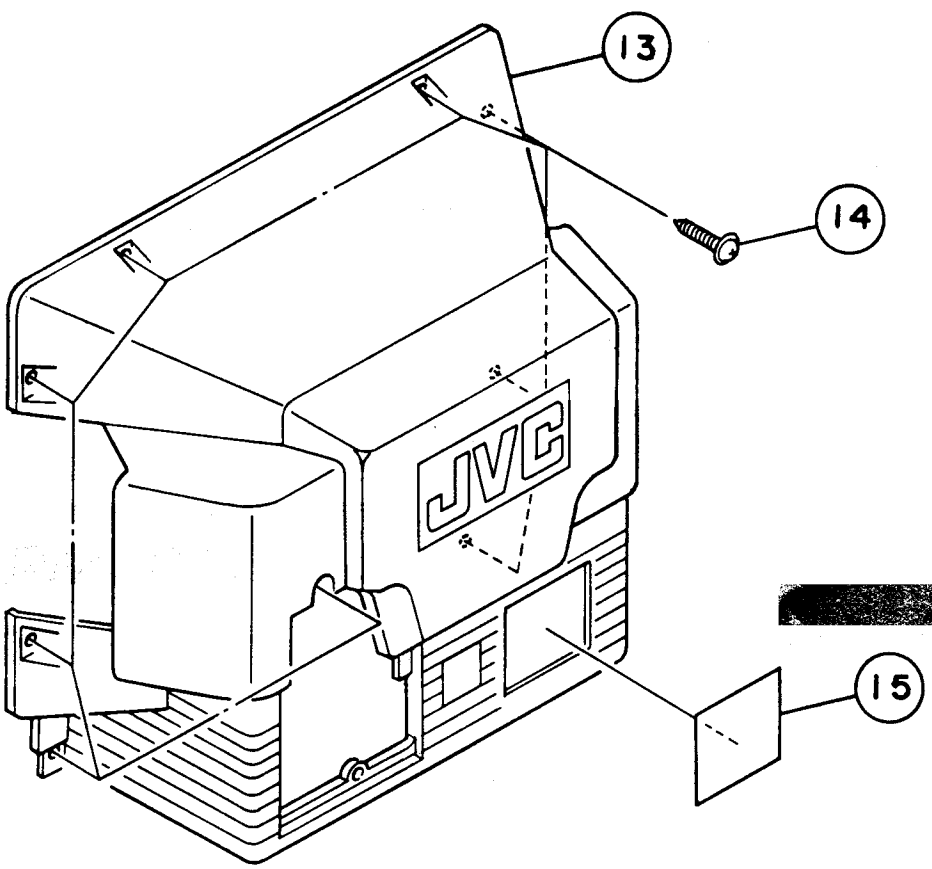
CK11073-B01

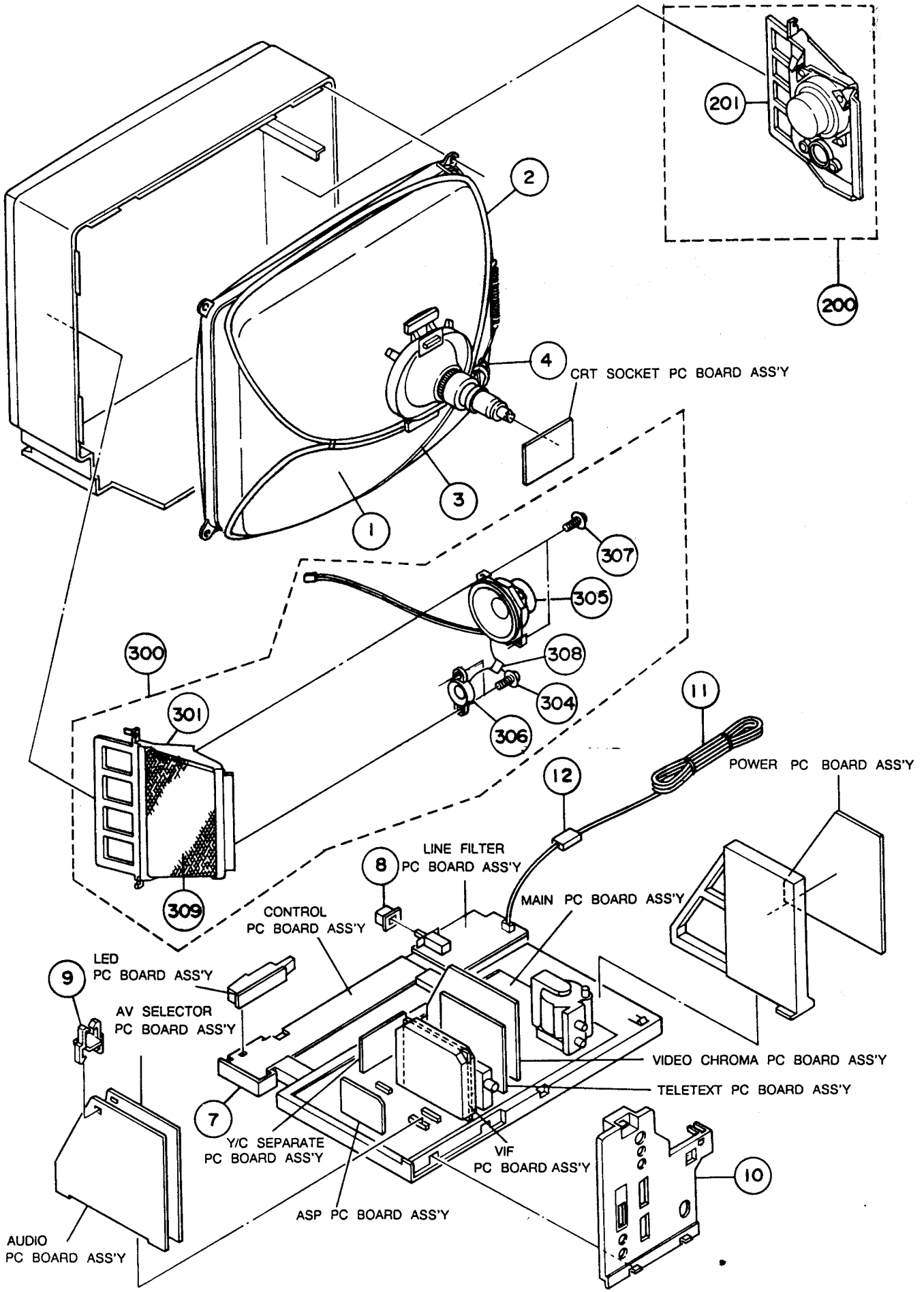
CMK-81X



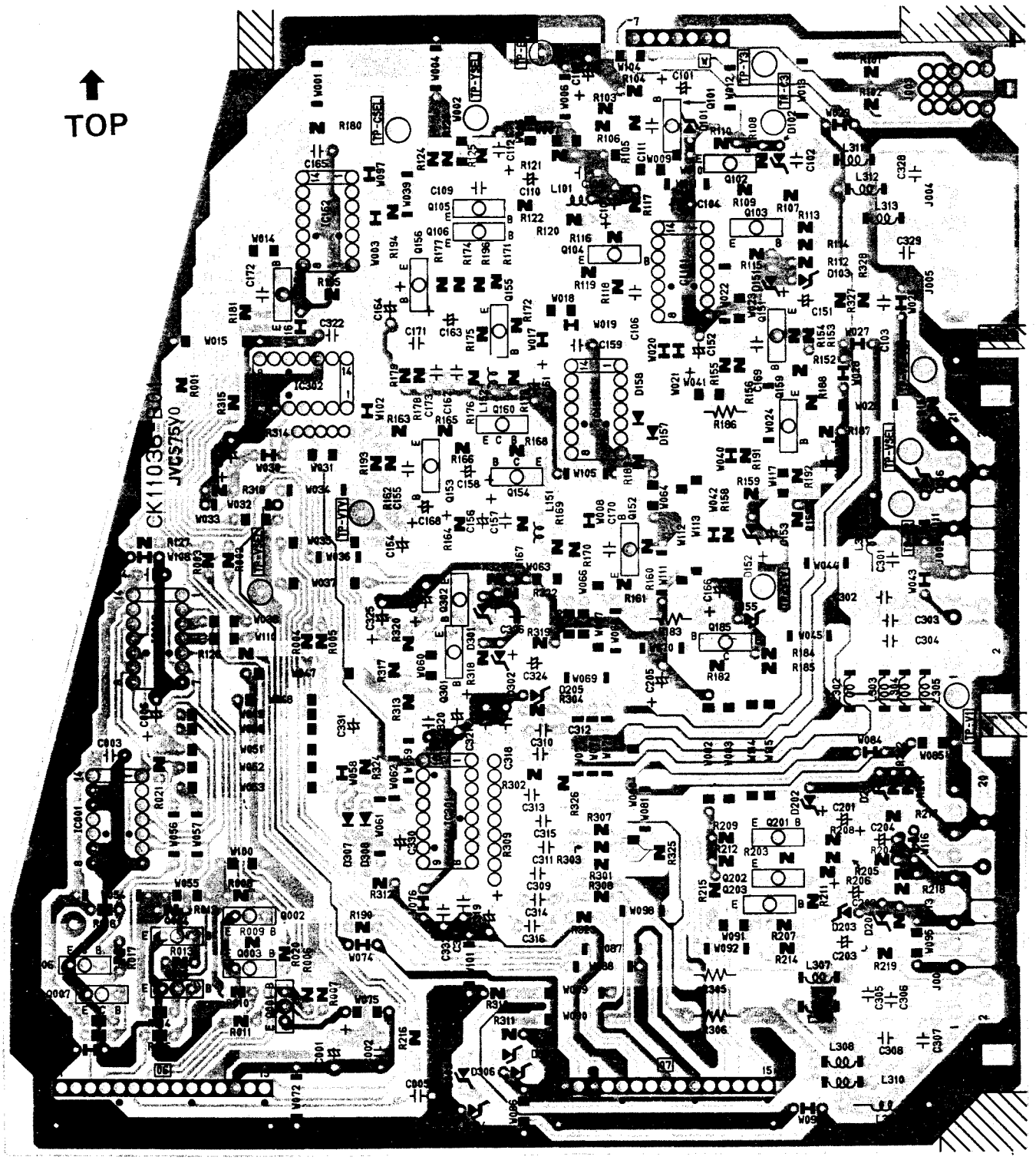
EXPLODED VIEW



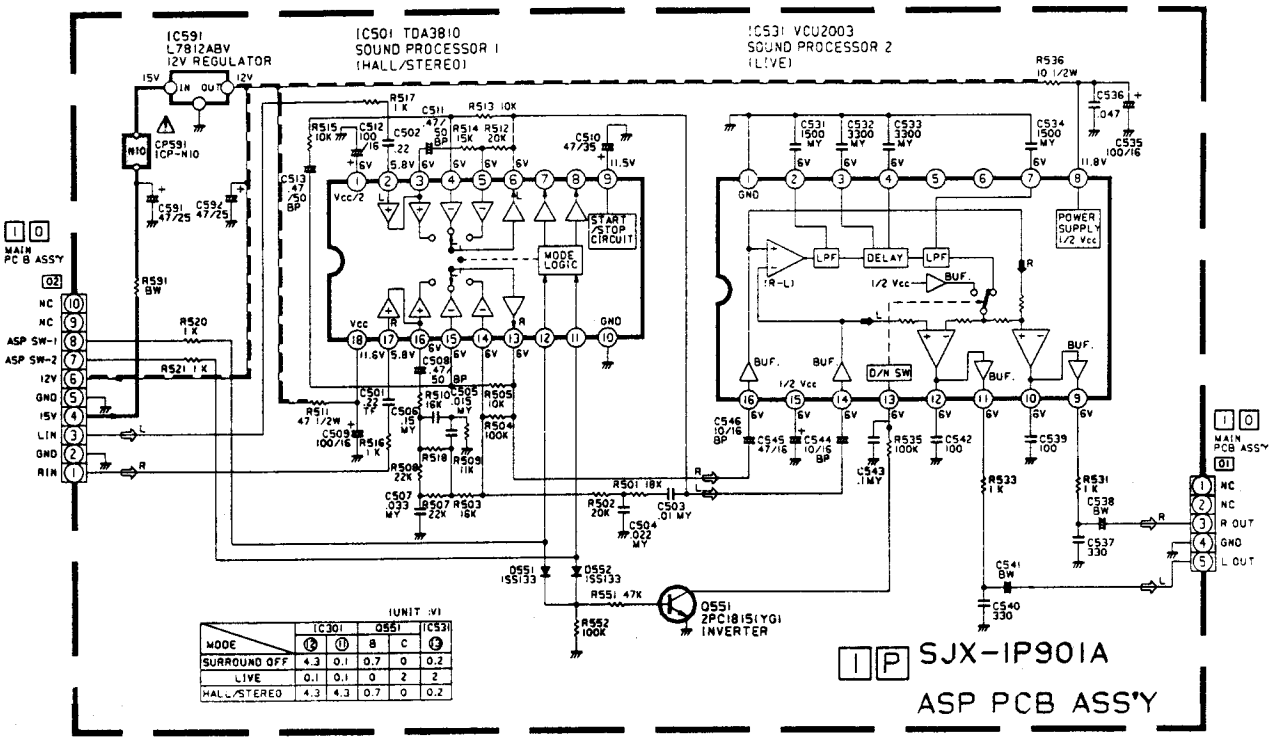



201
200
2
4
CRT SOCKET PC BOARD ASS'Y
1
3
307
305
308
304
306
300
301
309
11
12
POWER PC BOARD ASS'Y
LINE FILTER
PC BOARD ASS'Y
8
MAIN PC BOARD ASS'Y
CONTROL
PC BOARD ASS'Y
9
LED
PC BOARD ASS'Y
AV SELECTOR
PC BOARD ASS'Y
VIDEO CHROMA PC BOARD ASS'Y
TELETEXT PC BOARD ASS'Y
7
Y/C SEPARATE
PC BOARD ASS'Y
VIF
PC BOARD ASS'Y
10
ASP PC BOARD ASS'Y
AUDIO
PC BOARD ASS'Y

■ AV SELECTOR PCB BACK PATTERN

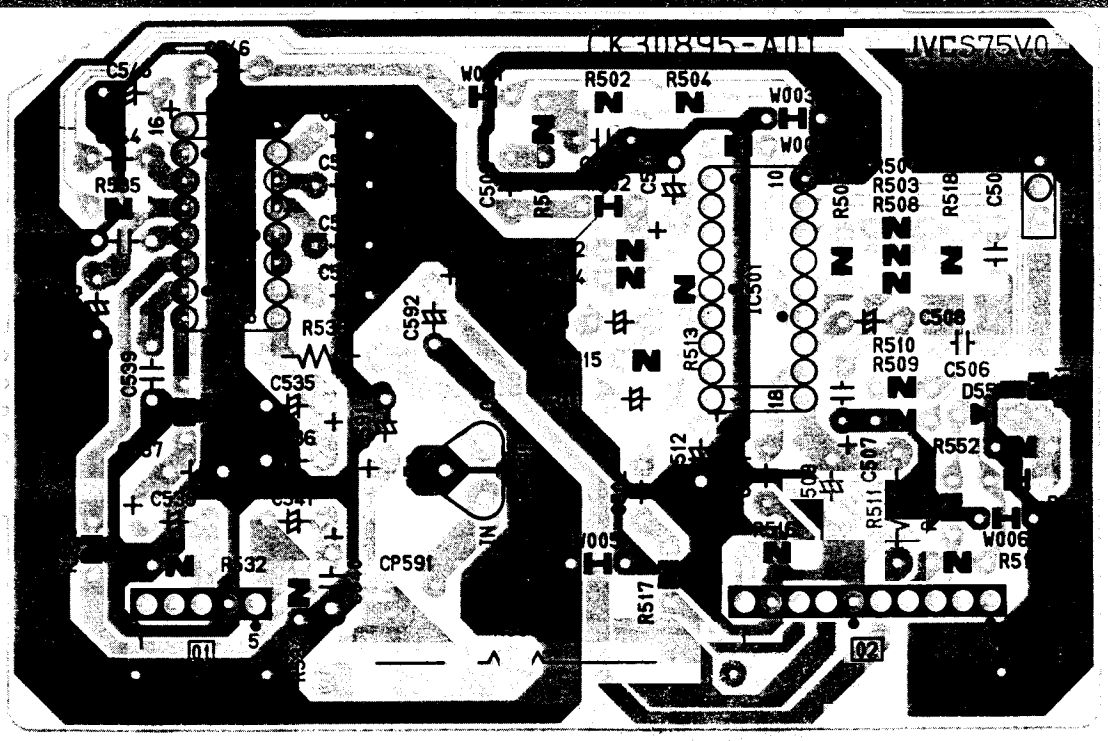


■ ASP PCB SCHEMATIC DIAGRAM AND BACK PATTERN



(UNIT : V)

MODE	IC301 ⑫	IC301 ⑪	Q551 B	Q551 C	IC531 ⑫
SURROUND OFF	4.3	0.1	0.7	0	0.2
LIVE	0.1	0.1	0	2	2
HALL/STEREO	4.3	4.3	0.7	0	0.2



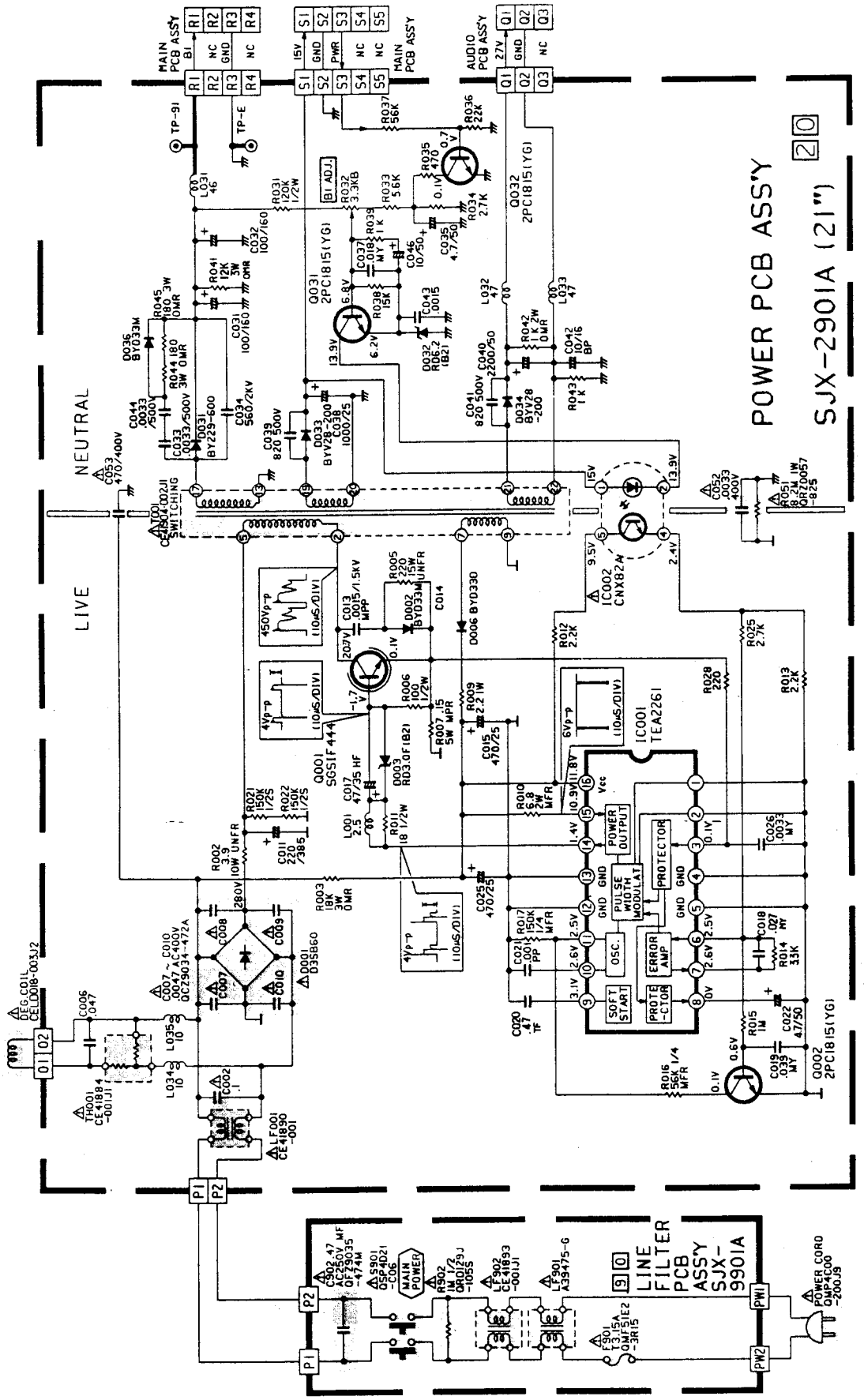
PRINTED CIRCUIT BOARD PARTS LIST

MAIN PC BOARD ASS'Y (SJX-1902B-U2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS			
VARIABLE R						
R1012	QVPA603-223AZ	V R (NOISE)	22kΩ B			
R1373	QVPA603-103AZ	V R (SUB BRIGHT)	10kΩ B			
R1387	QVPA601-473A	V R (SUB CONTRAST)	47kΩ B			
RESISTOR						
R1003	QRG029J-332A	OM R	3.3kΩ	2W	J	
R1503	QRD123J-121SX	C R	120 Ω	1/2W	J	*
R1504	QRG029J-121	OM R	120 Ω	2W	J	
R1505	QRD123J-220SX	C R	22 Ω	1/2W	J	*
R1506	QRG029J-103	OM R	10kΩ	2W	J	
R1507	QRG029J-102	OM R	1kΩ	2W	J	
R1509	QRG019J-821S	OM R	820 Ω	1W	J	
R1534	QRG029J-181	OM R	180 Ω	2W	J	
R1543	QRD123J-821SX	C R	820 Ω	1/2W	J	*
R1544	QRG019J-271S	OM R	270 Ω	1W	J	
R1545	QRX019J-2R7S	MF R	2.7 Ω	1W	J	
R1546	QRX019J-2R7S	MF R	2.7 Ω	1W	J	
R1547	QRG019J-182S	OM R	1.8kΩ	1W	J	
R1548	QRD123J-821SX	C R	820 Ω	1/2W	J	*
R1549	QRD123J-122SX	C R	1.2kΩ	1/2W	J	*
R1555	QRD123J-821SX	C R	820 Ω	1/2W	J	*
R1581	QRG029J-102	OM R	1kΩ	2W	J	
R1582	QRG029J-681	OM R	680 Ω	2W	J	
R1760	QRB049J-103	NET R	10kΩ	1/10W	J	
R1903	QRG019J-681S	OM R	680 Ω	1W	J	
CAPACITOR						
C1009	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1013	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1307	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1354	QFV71HJ-274MZ	TF CAP.	0.27μF	50V	J	*
C1355	QFV71HJ-274MZ	TF CAP.	0.27μF	50V	J	*
C1356	QEHC1CM-108MZ	E CAP.	1000μF	16V	M	*
C1357	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1358	QFV71HJ-274MZ	TF CAP.	0.27μF	50V	J	*
C1359	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1360	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1361	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1362	QFV71HJ-334MZ	TF CAP.	0.33μF	50V	J	*
C1365	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1366	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1369	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1370	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1371	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C1503	QEM61HK-105MZ	E CAP.	1μF	50V	K	*
⚠ C1505	QFZ0081-1001S	M P P CAP.	10pF	1600V	±3%	
⚠ C1506	QFZ0081-7301S	M P P CAP.	73pF	1600V	±3%	
C1507	QFM72DK-473M	M CAP.	0.047μF	200V	K	
⚠ C1509	QFZ0059-404S	M P P CAP.	0.4μF	400V	J	
⚠ C1512	QFZ0089-564S	M P P CAP.	0.56μF	200V	J	
C1513	QEH52CM-107M	E CAP.	100μF	160V	M	
C1523	QEHB1VM-108M	E CAP.	1000μF	35V	M	
C1524	QEHB1EM-108M	E CAP.	1000μF	25V	M	
C1527	QEHC1CM-477MZ	E CAP.	470μF	16V	M	*
C1528	QEHC1AM-477MZ	E CAP.	470μF	10V	M	*
C1529	QFV71HJ-334MZ	TF CAP.	0.33μF	50V	J	*
C1532	QFV71HJ-334MZ	TF CAP.	0.33μF	50V	J	*
C1535	QCZ0128-102A	C CAP.	1000pF	500V	K	
C1536	QCZ0128-102A	C CAP.	1000pF	500V	K	
C1543	QEHB1VM-108M	E CAP.	1000μF	35V	M	

SYMBOL NO.	PART NO.	PART NAME	REMARKS			
CAPACITOR						
C1544	QEHC1VM-107MZ	E CAP.	100μF	35V	M	*
C1581	QEHC1EM-477MZ	E CAP.	470μF	25V	M	*
C1582	QEHC1EM-476MZ	E CAP.	47μF	25V	M	*
C1583	QEHC1EM-476MZ	E CAP.	47μF	25V	M	*
C1702	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1704	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1708	QFZ0083-683MZ	M CAP.	0.068μF	50V	K	*
C1751	QCT25CH-120Z	C CAP.	12pF	50V	J	
C1752	QCT25CH-330Z	C CAP.	33pF	50V	J	*
C1758	QCT25CH-151Z	C CAP.	150pF	50V	J	*
C1759	QCT25CH-470Z	C CAP.	47pF	50V	J	*
C1760	QEB61HM-104MZ	E CAP.	0.1μF	50V	M	*
C1762	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1764	QFZ0083-563MZ	M CAP.	0.056μF	50V	K	*
C1768	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1901	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
C1903	QCZ0118-104M	C CAP.	0.1μF	25V	Z	
TRANSFORMER						
T1501	CE40895-00A	H DRIVE TRANSF.				
⚠ T1502	CE41903-001J1	L O TRANSF				*
T1503	CE40381-00A	SIDE PIN TRANSF				
COIL						
L1001	CELP026-8R2ZJ2	P COIL				*
L1002	CELP026-5R6ZJ2	P COIL				*
L1003	CELP026-8R2ZJ2	P COIL				*
L1004	CELP026-8R2ZJ2	P COIL				*
L1501	CE41169-002	P COIL				
L1503	CE40954-00A	LINEARITY COIL				
L1504	CJ30030-050	HEATER CHOKE				
L1521	CJ30030-020	HEATER CHOKE				
L1522	CELP002-272Z	P COIL				*
L1701	CELP026-4R7J2	P COIL				*
L1760	CELP026-8R2J2	P COIL				*
DIODE						
D1001	MA4330 (M) -T2	ZENER DIODE				*
D1002	MA700	SI. DIODE				
D1351	RD12ES (B) -T2	ZENER DIODE				*
D1352	RD12ES (B) -T2	ZENER DIODE				*
D1353	RD12ES (B) -T2	ZENER DIODE				*
D1354	1SS133	SI. DIODE				
D1501	BAV21-T2	SI. DIODE				*
D1502	BY228-20	SI. DIODE				*
D1503	BYW95B-20	SI. DIODE				*
D1505	BYD33G-T3	SI. DIODE				*
D1521	BYD33G-T3	SI. DIODE				*
D1524	BYW95B-20	SI. DIODE				*
D1525	BYW95B-20	SI. DIODE				*
D1526	BYD33D-T3	SI. DIODE				*
D1527	BYD33D-T3	SI. DIODE				*
D1541	1N4002ID-T3	SI. DIODE				*
D1547	MA4120 (M) -T2	ZENER DIODE				*
D1581	1N4002ID-T3	SI. DIODE				*
D1702	1SS133-T2	SI. DIODE				*
D1703	1SS133-T2	SI. DIODE				*
D1705	1SS133-T2	SI. DIODE				*
D1706	1SS133-T2	SI. DIODE				*
D1707	1SS133-T2	SI. DIODE				*

■ POWER PCB SCHEMATIC DIAGRAM AND BACK PATTERN



SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D1709	1SS133-T2	SI. DIODE	*
D1710	1SS133-T2	SI. DIODE	*
D1711	1SS133-T2	SI. DIODE	*
D1713	1SS133-T2	SI. DIODE	*
D1714	1SS133-T2	SI. DIODE	*
D1715	1SS133-T2	SI. DIODE	*
D1716	1SS133-T2	SI. DIODE	*
D1752	1SS133-T2	SI. DIODE	*
D1753	1SS133-T2	SI. DIODE	*
D1755	1SS133-T2	SI. DIODE	*
D1756	1SS133-T2	SI. DIODE	*
D1758	1SS133-T2	SI. DIODE	*
D1761	1SS133-T2	SI. DIODE	*
D1762	1SS133-T2	SI. DIODE	*
D1765	1SS133-T2	SI. DIODE	*
D1766	1SS133-T2	SI. DIODE	*
D1767	1SS133-T2	SI. DIODE	*
D1768	BAV21-T2	SI DIODE	*
D1769	BAV21-T2	SI DIODE	*
D1770	1SS133-T2	SI. DIODE	*
D1802	1SS133-T2	SI. DIODE	*
D1803	1SS133-T2	SI. DIODE	*
D1805	1SS133-T2	SI. DIODE	*
D1831	1SS133-T2	SI. DIODE	*
D1832	1SS133-T2	SI. DIODE	*
D1833	1SS133-T2	SI. DIODE	*
D1834	1SS133-T2	SI. DIODE	*
D1901	1SS146-T2	SI. DIODE	*
TRANSISTOR			
Q1001	2SC1360-C1	SI. TRANSISTOR	
Q1301	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1302	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1303	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1304	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1305	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1306	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1307	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1308	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1309	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1310	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1311	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1312	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1313	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1314	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1315	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1316	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1331	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1351	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1352	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1353	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1354	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1501	2SC3669 (OY) -T	SI. TRANSISTOR	*
⚠ Q1502	BU508AFI	SI. TRANSISTOR	*
Q1541	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1701	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1702	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1703	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1704	2PC1815 (YG) -T	SI. TRANSISTOR	*

SYMBOL NO.	PART NO.	PART NAME	REMARKS
TRANSISTOR			
Q1705	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1706	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1707	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1708	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1711	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1712	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1713	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1714	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q1715	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1716	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1717	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1801	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1861	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1901	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q1902	2SA966 (OY) -T	SI. TRANSISTOR	*
IC			
IC1301	AN5862K	I. C.	
IC1302	AN5862K	I. C.	
IC1351	TDA4580	I. C.	*
⚠ IC1521	L7812ABV	I. C.	*
⚠ IC1522	L7805ABV	I. C.	*
IC1541	TDA3653C	I. C.	*
IC1701	M37102M8-A49SP	I. C.	
IC1702	M6M80041P	I. C.	
IC1703	MN1280-Q	I. C.	
IC1704	HCF4049UBE	I. C.	or HCF4049UBE *
IC1705	MC78L05ACP	I. C.	or MC78L05ACP *
IC1901	L7812ABV	I. C.	*
OTHERS			
	SJX-1F901AU2	IF PB ASSY	
	SJX-1Y901AU2	Y/C SEPA PB ASSY	*
⚠ CP1901	ICP-N10-Y	I. C. PROTECT	
⚠ R1521	QRH017J-470M	F R	47 Ω 1W J
⚠ R1523	QRH027J-1R8M	F R	1.8 Ω 2W J
⚠ R1524	QRH027J-1R8M	F R	1.8 Ω 2W J
⚠ R1525	QRH027J-1R8M	F R	1.8 Ω 2W J
⚠ R1526	QR20054-470M	F R	47 Ω 1/4W J
⚠ R1527	QRH017J-6R8M	F R	6.8 Ω 1W J
⚠ R1532	QRH127J-1R8M	F R	1.8 Ω 1/2W J
S1541	QSL4A13-C02	LEVER SWITCH	V. CENTER
TU1001	CEEK350-B01-U	UHF E TUNER	*
X1751	CE41887-001	CRYSTAL	

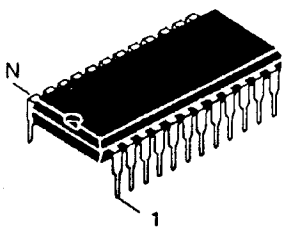
2. PIN ARRANGEMENTS OF TRANSISTORS AND ICs

2PC1815(YG)
2PA1015(YG)
2SC1959(OYG)
2SC2878(B)

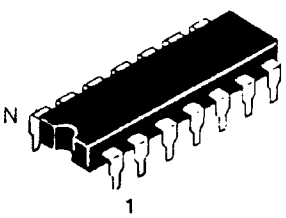
2SC1360
2SA966(OY)
2SC2655(Y)

2SC3699(OY)

BU508AF1
SGSIF444

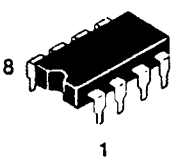


IC
M31702M8-A49SP
TDA4580
M52025SP
M51365SP
TA8662N
M65109BSP
SAA5231
SAA5243P/E
FCB61C65-70P
PCF84C81P/004

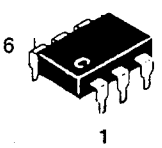


IC
HCF4049UBE
HCF4066BE
HCF4081BE
HCF4053BE
TDA4565
TDA1029
TDA1526
TDA3810

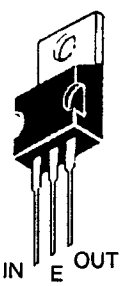
IC
M51496P
SM5807EP
LM324M
VCU2003
TEA2261



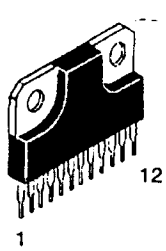
IC
M6M80041P
TDA1543
NE4558N
N5218P
PCF8582AP



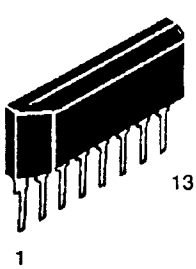
IC
CNX82A



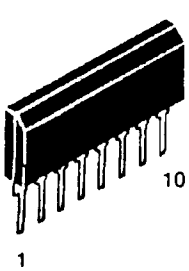
IC
L7812ABV
L7805ABV



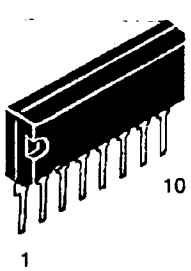
IC
TA8216A



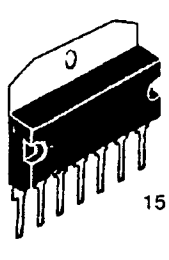
IC
AN5826



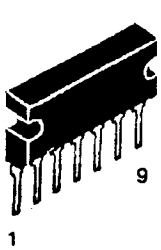
IC
M51494L



IC
LA7210



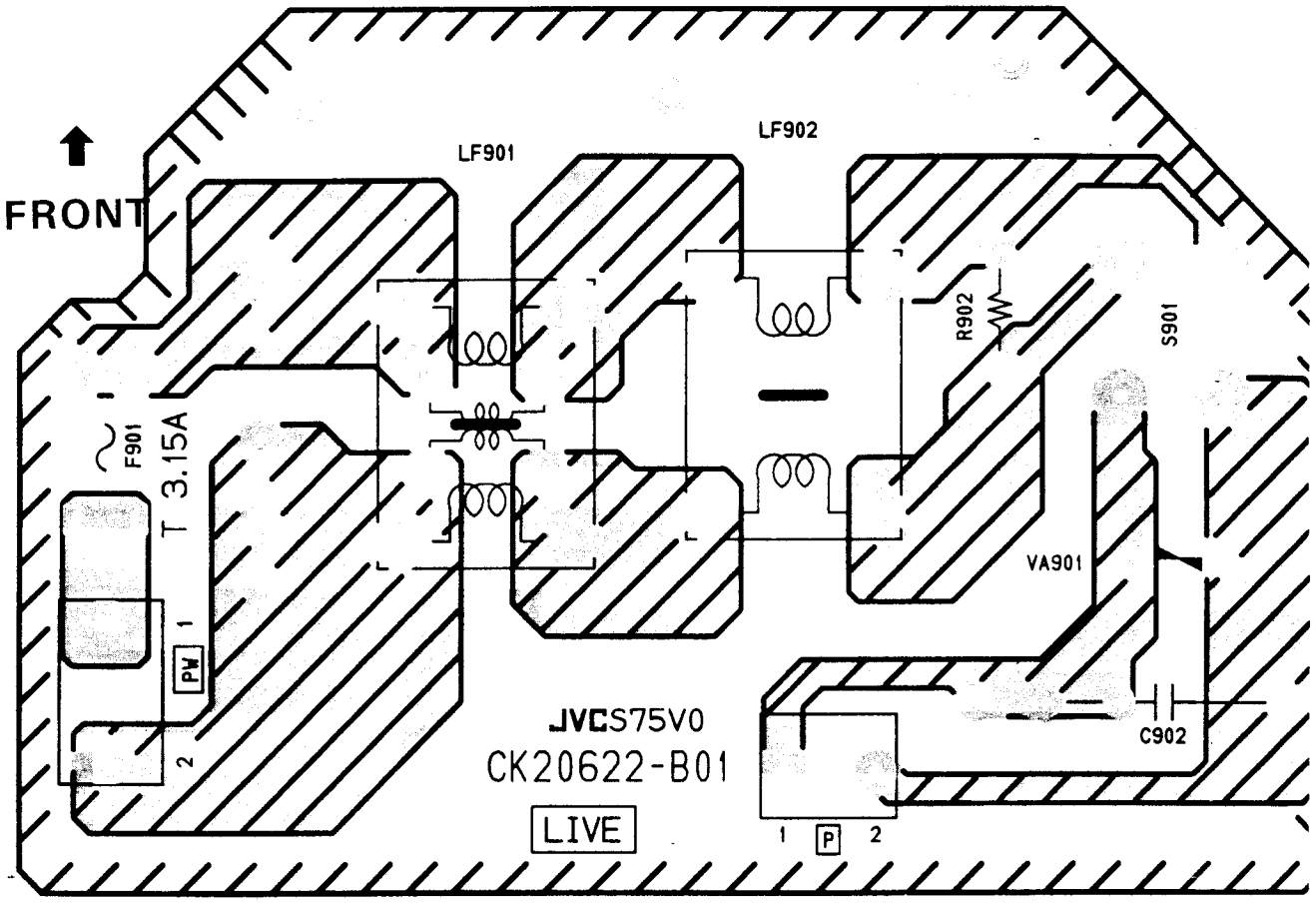
IC
TEAS101A



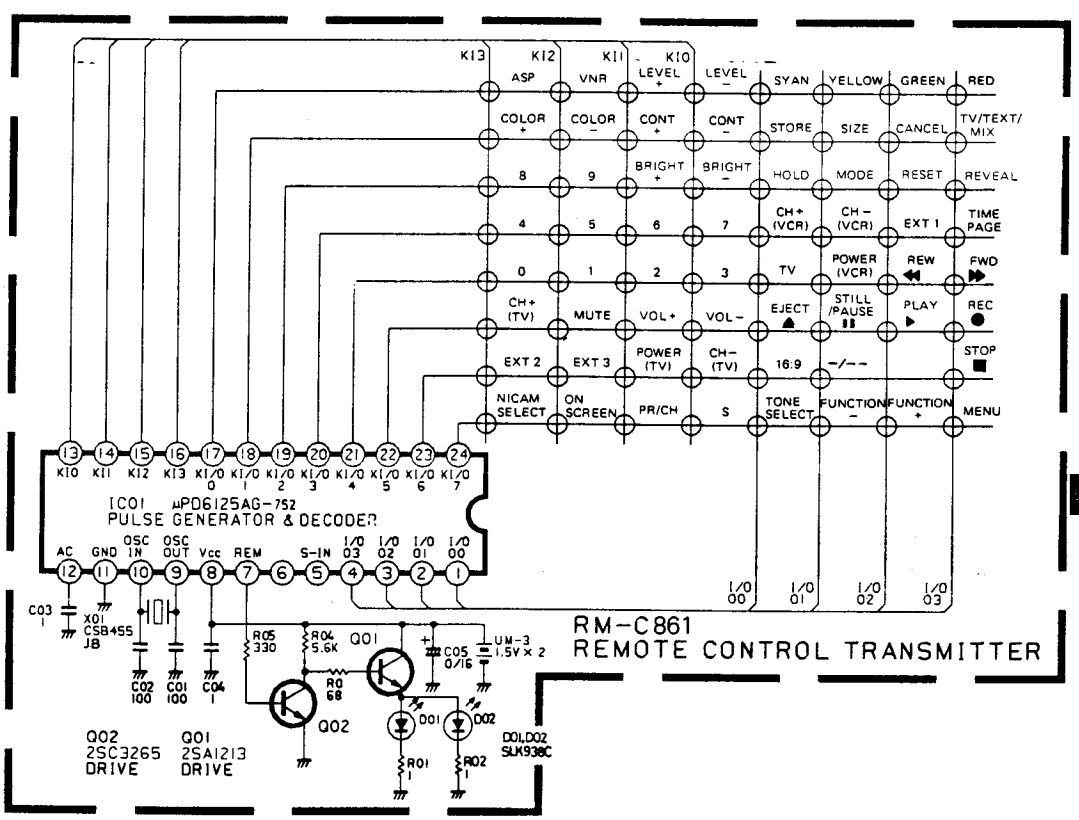
IC
TDA3654

IC
MN1280-Q

■ LINE FILTER PCB BACK PATTERN



■ REMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM



SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D2032	RD6.2E(B2)-T2	ZENER DIODE	*
D2033	BYV28-200-20	SI. DIODE	
D2034	BYV28-200-20	SI. DIODE	*
D2036	BYD33M-T3	SI. DIODE	*
TRANSISTOR			
Q2001	SGSIF444	POWER TRANSISTOR	*
Q2002	2PC1815(YG)-T	SI. TRANSISTOR	*
Q2031	2PC1815(YG)-T	SI. TRANSISTOR	*
Q2032	2PC1815(YG)-T	SI. TRANSISTOR	*
IC			
IC2001	TEA2261	I. C.	*
⚠ IC2002	CNX82A	I. C.	*
OTHERS			
⚠ LF2001	CE41890-001	LINE FILTER	
⚠ TH2001	CE41884-001J1	W-PTC	*

LINE FILTER PC BOARD ASS'Y (SJX-9901A-U2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
RESISTOR			
⚠ R9902	QRD129J-105S	C R	1MΩ 1/2W J
CAPACITOR			
⚠ C9902	QFZ9035-474M	MM CAP.	
OTHERS			
	A44594-002	FUSE CLIP	
⚠ F9901	QMF51E2-3R15S	FUSE	3.15A
⚠ LF9901	A39475-G	LINE FILTER	
⚠ LF9902	CE41893-001J1	LINE FILTER	*
⚠ S9901	QSP4D21-C06	PUSH SWITCH	Main Power

CONTROL PC BOARD ASS'Y (SJX-8901A-U2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C8005	QCZ0118-104M	C CAP.	0.1μF 25V Z
C8006	QCZ0118-104M	C CAP.	0.1μF 25V Z
COIL			
L8001	CELP017-5R6	P COIL	5.6μH
L8002	CELP017-5R6	P COIL	5.6μH
L8003	CELP017-5R6	P COIL	5.6μH
L8004	CELP017-5R6	P COIL	5.6μH
L8005	CELP017-5R6	P COIL	5.6μH
L8006	CELP017-5R6	P COIL	5.6μH
DIODE			
D8002	1SS133-T2	SI. DIODE	*
D8003	1SS133-T2	SI. DIODE	*
D8004	1SS133-T2	SI. DIODE	*
D8005	1SS133-T2	SI. DIODE	*
D8006	1SS133-T2	SI. DIODE	*
D8007	1SS133-T2	SI. DIODE	*
D8011	RD13JS(B)-T2	ZENER DIODE	*
D8012	RD13JS(B)-T2	ZENER DIODE	*
D8013	RD13JS(B)-T2	ZENER DIODE	*
D8014	RD13JS(B)-T2	ZENER DIODE	*
D8015	RD13JS(B)-T2	ZENER DIODE	*
D8016	RD13JS(B)-T2	ZENER DIODE	*
D8017	RD13JS(B)-T2	ZENER DIODE	*
D8018	RD13JS(B)-T2	ZENER DIODE	*
TRANSISTOR			
Q8001	2PC1815(YG)-T	SI. TRANSISTOR	*
Q8002	2PC1815(YG)-T	SI. TRANSISTOR	*
IC			
IC8001	TC4049BP	I. C.	
OTHERS			
J8001	AX49607-004	HEADPHONE JACK	
J8002	QMD2B04-001	MINI CONNECTOR	
J8003	CEMN011-002	JACK	
J8004	CEMN011-003	JACK	
S8002	QSP4H11-C06	PUSH SWITCH	Function
S8003	QSP4H11-C06	PUSH SWITCH	CH-
S8004	QSP4H11-C06	PUSH SWITCH	CH+
S8005	QSP4H11-C06	PUSH SWITCH	VOL-
S8006	QSP4H11-C06	PUSH SWITCH	VOL+
S8007	CESP004-001J1	PUSH SWITCH	Sub Power *

AUDIO PC BOARD ASS'Y (SJX-1A901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS			
RESISTOR						
R500	QRB085J-474	NET R	470kΩ	1/8W	J	
R519	QRV141F-9101Y	MF R	9.1kΩ	1/4W	F	*
R520	QRV141F-9101Y	MF R	9.1kΩ	1/4W	F	*
R521	QRV141F-1201AY	MF R	1.2kΩ	1/4W	F	*
R522	QRV141F-1201AY	MF R	1.2kΩ	1/4W	F	*
R911	QRG029J-220A	OM R	22Ω	2W	J	
CAPACITOR						
C110	QCT25CH-6R0Z	C CAP.	6pF	50V	J	*
C205	QCT25CH-560Z	C CAP.	56pF	50V	J	*
C206	QCT25CH-390Z	C CAP.	39pF	50V	J	*
C207	QCT25CH-180Z	C CAP.	18pF	50V	J	*
C208	QAT3110-300A	TRIMMER CAP	30pF			
C213	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C214	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C215	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C216	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C221	QCT25CH-330Z	C CAP.	33pF	50V	J	*
C223	QCT25CH-560Z	C CAP.	56pF	50V	J	*
C224	QCT25CH-180Z	C CAP.	18pF	50V	J	*
C306	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C507	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C508	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C515	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C516	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C517	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C518	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C519	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C520	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C521	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C522	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C753	QFV71HJ-224MZ	TF CAP.	0.22μF	50V	J	*
C754	QEN61HM-105Z	BP E CAP.	1μF	50V	M	*
C755	QFV71HJ-563MZ	TF CAP.	0.056μF	50V	J	*
C765	QFV71HJ-563MZ	TF CAP.	0.056μF	50V	J	*
C768	QEN61HM-105Z	BP E CAP.	1μF	50V	M	*
C801	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C803	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C807	QFV71HJ-124MZ	TF CAP.	0.12μF	50V	J	*
C809	QFV71HJ-124MZ	TF CAP.	0.12μF	50V	J	*
C850	QEN61HM-105Z	BP E CAP.	1μF	50V	M	*
C851	QEN61HM-105Z	BP E CAP.	1μF	50V	M	*
TRANSFORMER						
T103	CELT001-303	CW TRANSF				
T161	CELT003-201	SIF TRANSF.				
T201	CE41541-002	B P F				
T301	CELT015-006	S T TRANSF				
COIL						
L102	CELP026-1R5ZJ2	P COIL	1.5μH			*
L104	CELP026-6R8ZJ2	P COIL	6.8μH			*
L105	CELP026-6R8ZJ2	P COIL	6.8μH			*
L106	CELP026-6R8ZJ2	P COIL	6.8μH			*
L107	CELP026-6R8ZJ2	P COIL	6.8μH			*
L108	CELP026-6R8ZJ2	P COIL	6.8μH			*
L109	CELP026-8R2ZJ2	P COIL	8.2μH			*
L201	CELP026-821ZJ2	P COIL	820μH			*
L202	CELP026-821ZJ2	P COIL	820μH			*
L301	CELP026-100ZJ2	P COIL	10μH			*

SYMBOL NO.	PART NO.	PART NAME	REMARKS	
COIL				
L401	CELP026-100ZJ2	P COIL	10μH	*
L411	CELP026-100ZJ2	P COIL	10μH	*
L701	CELP021-5R6	P COIL	5.6μH	
L702	CELP021-5R6	P COIL	5.6μH	
L703	CELP021-5R6	P COIL	5.6μH	
L803	CELC026-100	CHOKE COIL	10μH	
L804	CELC026-100	CHOKE COIL	10μH	
L805	CE41832-001	LEAD CORE		
L806	CELC026-100	CHOKE COIL	10μH	
L807	CELC026-100	CHOKE COIL	10μH	
L808	CELC026-100	CHOKE COIL	10μH	
L809	CELC026-100	CHOKE COIL	10μH	
L901	CELP026-6R8ZJ2	P COIL	6.8μH	*
DIODE				
D301	1SS133-T2	SI. DIODE		*
D303	KV1310	VARI CAP DIODE		
D310	1SS133-T2	SI. DIODE		*
D311	1SS133-T2	SI. DIODE		*
D312	1SS133-T2	SI. DIODE		*
D313	1SS133-T2	SI. DIODE		*
D701	1SS133-T2	SI. DIODE		*
D702	1SS133-T2	SI. DIODE		*
D704	1SS133-T2	SI. DIODE		*
D705	1SS133-T2	SI. DIODE		*
D751	1SS133-T2	SI. DIODE		*
D752	1SS133-T2	SI. DIODE		*
D753	1SS133-T2	SI. DIODE		*
D754	1SS133-T2	SI. DIODE		*
D755	1SS133-T2	SI. DIODE		*
D901	RD11E(B2)-T2	ZENER DIODE		*
D902	1SS133-T2	SI. DIODE		*
TRANSISTOR				
Q101	2SC1360-C1	SI. TRANSISTOR		
Q104	2PC1815(YG)-T	SI TRANSISTOR		*
Q105	2PA1015(YG)-T	SI TRANSISTOR		*
Q201	2PC1815(YG)-T	SI TRANSISTOR		*
Q501	2SC2878(B)-T	SI. TRANSISTER		*
Q502	2SC2878(B)-T	SI. TRANSISTER		*
Q701	2PC1815(YG)-T	SI TRANSISTOR		*
Q702	2PC1815(YG)-T	SI TRANSISTOR		*
Q703	2PC1815(YG)-T	SI TRANSISTOR		*
Q704	2PC1815(YG)-T	SI TRANSISTOR		*
Q707	2PA1015(YG)-T	SI TRANSISTOR		*
Q708	2PC1815(YG)-T	SI TRANSISTOR		*
Q709	2PC1815(YG)-T	SI. TRANSISTOR		*
Q710	2PC1815(YG)-T	SI. TRANSISTOR		*
Q752	2PA1015(YG)-T	SI TRANSISTOR		*
Q753	2PC1815(YG)-T	SI TRANSISTOR		*
Q754	2PA1015(YG)-T	SI TRANSISTOR		*
Q801	2PC1815(YG)-T	SI TRANSISTOR		*
Q891	2PA1015(YG)-T	SI TRANSISTOR		*
Q892	2PC1815(YG)-T	SI TRANSISTOR		*
Q893	2PC1815(YG)-T	SI TRANSISTOR		*
Q894	2SC2878(B)-T	SI. TRANSISTER		*
Q895	2SC2878(B)-T	SI. TRANSISTER		*
Q901	2PC1815(YG)-T	SI TRANSISTOR		*

SYMBOL NO.	PART NO.	PART NAME	REMARKS
IC			
IC101	M51365SP	I. C.	
IC201	TA8662N	I. C.	
IC301	M65109BSP	I. C.	
IC401	SM5807EP	I. C.	
IC402	TDA1543A	I. C.	*
IC403	NE4558N	I. C.	*
IC501	LM324N	I. C.	*
IC502	TDA1029	I. C.	*
IC751	TDA1526	I. C.	*
IC801	TA8216H	I. C.	
IC851	M5218P	I. C.	
IC911	L7805ABV	I. C.	*
OTHERS			
CF601	A75111-C	CERAMIC FILTER	
CF602	A75111-C	CERAMIC FILTER	
⚠ CP901	ICP-N15	IC PROTECTOR	
J701	CEMN011-002	JACK	
J702	CEMN011-003	JACK	
J801	CEMT007-001J1	EXT SP TERMINAL	*
SF101	CE41031-301	SAW FILTER	
SW801	QSS4C22-C04	SLIDE SWITCH	Speaker Select SW
X201	CE41845-001	CRYSTAL	
X202	CE41540-001	CRYSTAL	

ASP PC BOARD ASS'Y (SJX-1P901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C501	QFV71HJ-224MZ	TF CAP.	0.22μF 50V J *
C502	QFV71HJ-224MZ	TF CAP.	0.22μF 50V J *
C508	QEN61HM-474Z	BP E CAP.	0.47μF 50V M *
C511	QEN61HM-474Z	BP E CAP.	0.47μF 50V M *
C513	QEN61HM-474Z	BP E CAP.	0.47μF 50V M *
C544	QEN61CM-106Z	BP E CAP.	10μF 16V M *
C546	QEN61CM-106Z	BP E CAP.	10μF 16V M *
C591	QEHC1EM-476MZ	E CAP.	47μF 25V M *
C592	QEHC1EM-476MZ	E CAP.	47μF 25V M *
DIODE			
D551	1SS133-T2	SI. DIODE	*
D552	1SS133-T2	SI. DIODE	*
TRANSISTOR			
Q551	2PC1815(YG)-T	SI TRANSISTOR	*
IC			
IC501	TDA3810	I. C.	*
IC531	VUC2003	I C	*
IC591	L7812ABV	I C	*
OTHERS			
⚠ CP591	ICP-N10-Y	IC PROTECTER	*

VIF PC BOARD ASS'Y (SJX-1F901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C106	QCT25CH-101AZ	C CAP.	100pF 50V J *
C107	QCT25CH-101AZ	C CAP.	100pF 50V J *
C108	QCT25CH-181AZ	C CAP.	180pF 50V J *
C109	QCT25CH-181Z	C CAP.	180pF 50V J *
C111	QCT25CH-4R0AZ	C CAP.	4pF 50V J *
C112	QCT25CH-5R0AZ	C CAP.	5pF 50V J *
C115	QCT25CH-680AZ	C CAP.	68pF 50V J *
C116	QCT25CH-101Z	C CAP.	100pF 50V J *
C117	QCT25CH-101Z	C CAP.	100pF 50V J *
C120	QEE61VK-224BZ	TAN. CAP.	0.22μF 35V K *
C202	QCT25CH-221AZ	C CAP.	220pF 50V J *
C705	QFV71HJ-683MZ	TF CAP.	0.068μF 50V J *
C707	QFV81HJ-124M	TF CAP.	0.12μF 50V J
TRANSFORMER			
T101	CELT022-002	FTZ TRAP TRANSF	
T102	CE41597-401	TRAP COIL	
T103	CELT009-312	1ST PIF TRANSF	
T104	CELT001-304	CW TRANSF	
T105	CE40123-600	AFC TRANSF.	
COIL			
L101	CE40143-R56	PEAKING COIL	0.56μH
L105	CE40143-2R7	PEAKING COIL	2.7μH
L201	CELP026-150ZJ2	P COIL	15μH *
L202	CELP026-100ZJ2	P COIL	10μH *
DIODE			
D001	MA4100(M)-T2	ZENER DIODE	*
D701	1SS133-T2	SI. DIODE	*
TRANSISTOR			
Q001	2SC1959(OYG)	SI. TRANSISTOR	
Q101	2SC1360-C1	SI. TRANSISTOR	
Q102	2SC1360-C1	SI. TRANSISTOR	
Q103	2SC1360-C1	SI. TRANSISTOR	
Q104	2SC1360-C1	SI. TRANSISTOR	
Q105	2PA1015(YG)-T	SI. TRANSISTOR	*
Q201	2PC1815(YG)-T	SI. TRANSISTOR	*
Q202	2PC1815(YG)-T	SI. TRANSISTOR	*
Q203	2PA1015(YG)-T	SI. TRANSISTOR	*
Q701	2PC1815(YG)-T	SI. TRANSISTOR	*
IC			
IC101	M51496P	I. C.	
IC701	LA7210	I. C.	
OTHERS			
CF201	A76138	C. TRAP	
CF701	CSB500F9	CERAMIC RESO	
SF101	CE40454-302	SAW FILTER	

AV SELECTOR PC BOARD ASS'Y (SJX-1S901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS	
RESISTOR				
R309	QRR085J-124	NET R	120KΩ 1/8W	J
R314	QRZ0092-001	NET R	1 Ω 10W	J
CAPACITOR				
C002	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C003	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C004	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C104	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C159	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C165	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C309	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C310	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C311	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C312	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C313	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C314	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C315	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C316	QFV71HJ-224MZ	TF CAP.	0.22μF 50V	J *
C320	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C322	QCZ0118-104M	C CAP.	0.1μF 25V	Z
C330	QEN61HM-335Z	BP E CAP.	3.3μF 50V	M *
C331	QEN61HM-335Z	BP E CAP.	3.3μF 50V	M *
COIL				
L101	CELP026-100ZJ2	P COIL	10μH	*
L302	CELP017-5R6	P COIL	5.6μH	
L303	CELP017-5R6	P COIL	5.6μH	
L304	CELP017-5R6	P COIL	5.6μH	
L305	CELP017-5R6	P COIL	5.6μH	
L306	CE41832-001	LEAD CORE		
L307	CELP017-5R6	P COIL	5.6μH	
L308	CELP017-5R6	P COIL	5.6μH	
L309	CELP017-5R6	P COIL	5.6μH	
L310	CELP017-5R6	P COIL	5.6μH	
L311	CELP017-5R6	P COIL	5.6μH	
L312	CELP017-5R6	P COIL	5.6μH	
L313	CELP017-5R6	P COIL	5.6μH	
DIODE				
D101	RD13JS (B) -T2	ZENER DIODE		*
D102	RD13JS (B) -T2	ZENER DIODE		*
D103	RD13JS (B) -T2	ZENER DIODE		*
D151	RD13JS (B) -T2	ZENER DIODE		*
D152	RD13JS (B) -T2	ZENER DIODE		*
D155	RD13JS (B) -T2	ZENER DIODE		*
D156	RD13JS (B) -T2	ZENER DIODE		*
D157	1SS133-T2	SI. DIODE		*
D158	1SS133-T2	SI. DIODE		*
D201	RD13JS (B) -T2	ZENER DIODE		*
D202	RD13JS (B) -T2	ZENER DIODE		*
D203	RD13JS (B) -T2	ZENER DIODE		*
D204	RD13JS (B) -T2	ZENER DIODE		*
D205	RD13JS (B) -T2	ZENER DIODE		*
D301	RD13JS (B) -T2	ZENER DIODE		*
D302	RD13JS (B) -T2	ZENER DIODE		*
D303	RD13JS (B) -T2	ZENER DIODE		*
D304	RD13JS (B) -T2	ZENER DIODE		*
D305	RD13JS (B) -T2	ZENER DIODE		*
D306	RD13JS (B) -T2	ZENER DIODE		*
D307	1SS133-T2	SI. DIODE		*
D308	1SS133-T2	SI. DIODE		*

SYMBOL NO.	PART NO.	PART NAME	REMARKS
TRANSISTOR			
Q001	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q002	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q003	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q004	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q005	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q006	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q007	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q101	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q102	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q103	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q104	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q105	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q106	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q151	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q152	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q153	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q154	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q155	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q156	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q157	2PA1015 (YG) -T	SI. TRANSISTOR	*
Q158	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q159	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q160	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q201	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q202	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q203	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q301	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q302	2PC1815 (YG) -T	SI. TRANSISTOR	*
IC			
IC001	HCF4081BE	I. C.	*
IC002	HCF4081BE	I. C.	*
IC101	HCF4066BE	I. C.	*
IC151	HCF4066BE	I. C.	*
IC152	HCF4066BE	I. C.	*
IC301	TDA1029	I. C.	*
IC302	HCF4066BE	I. C.	*
OTHERS			
J001	CE40529-009J1	21 PIN SOCKET	*
J002	CE40529-009J1	21 PIN SOCKET	*
J003	QMD2B04-001	MINI CONNECTOR	
J004	CEMN011-002	JACK	
J005	CEMN011-003	JACK	

LED PC BOARD ASS'Y (SJX-8L901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D101	GL2HY6	L E D (YLW)	S Video
D102	GL2NG6	L E D (GRN)	Stereo
D103	GL2HS6	L E D (ORG)	On Timer
D104	GL2PR6	L E D (RED)	Power
IC			
IC101	GP1U521R	I. C.	
OTHERS			
	CM34609-001-E	LED HOLDER	*

VIDEO CHROMA PC BOARD ASS'Y (SJX-1V902AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS			
VARIABLE R						
R258	QVPA601-103A	V R (Y LEVEL)	10kΩ B			
R303	QVPA601-472A	V R (PAL SUB COLO	R) 4.7kΩ B			
R351	QVPA601-222A	V R (PAL DL GAIN)	2.2kΩ B			
R406	QVPA603-473AZ	V R (V. LIN)	47kΩ B			*
R412	QVPA603-221AZ	V R (V. HEIGHT)	220 Ω B			
R520	QVPA603-473AZ	V R (H. CENTER)	47kΩ B			*
RESISTOR						
⚠ R504	QRV141F-3741AY	MF R	3.74kΩ	1/4W	F	*
⚠ R505	QRV141F-7151AY	MF R	7.15kΩ	1/4W	F	*
R510	QRG029J-101A	OM R	100 Ω	2W	J	
CAPACITOR						
C223	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C224	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C260	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C305	QEN61HM-474Z	BP E CAP.	0.47μF	50V	M	*
C306	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C310	QEN61VM-475Z	BP E CAP.	4.7μF	35V	M	*
C403	QFV71HJ-224MZ	TF CAP.	0.22μF	50V	J	*
C404	QFV71HJ-105MZ	TF CAP.	1μF	50V	J	*
C405	QFV71HJ-105MZ	TF CAP.	1μF	50V	J	*
C406	QFV71HJ-224MZ	TF CAP.	0.22μF	50V	J	*
C407	QEM61HK-475MZ	E CAP.	4.7μF	50V	K	*
C408	QEM61HK-475MZ	E CAP.	4.7μF	50V	K	*
C409	QFV71HJ-563MZ	TF CAP.	0.056μF	50V	J	*
C504	QFV71HJ-684MZ	TF CAP.	0.68μF	50V	J	*
C506	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
C531	QFV71HJ-563MZ	TF CAP.	0.056μF	50V	J	*
TRANSFORMER						
T301	CELT016-006	CLOCK TRANSF				
T302	CE40396-A01	DL P TRANSF				
COIL						
L221	A76186-150Z	PEAKING COIL	15μH			*
L251	CELP017-560	P COIL	56μH			
L332	CELP026-8R2ZJ2	P COIL	8.2μH			*
DIODE						
D331	1SS133-T2	SI. DIODE				*
D332	MA4033 (M) -T2	ZENER DIODE				*
D401	1SS133-T2	SI. DIODE				*
⚠ D501	MA4068 (N) C1-T2	ZENER DIODE				*
D502	BYD33D-T3	SI DIODE				*
D503	MA4120 (M) -T2	ZENER DIODE				*
D504	1SS133-T2	SI. DIODE				*
D505	1SS133-T2	SI. DIODE				*
D506	1SS133-T2	SI. DIODE				*
D507	RD4.7E (B3)	ZENER DIODE				
TRANSISTOR						
Q201	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q204	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q221	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q222	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q223	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q241	2PA1015 (YG) -T	SI. TRANSISTOR				*
Q242	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q243	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q251	2PA1015 (YG) -T	SI. TRANSISTOR				*
Q333	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q381	2PC1815 (YG) -T	SI. TRANSISTOR				*

SYMBOL NO.	PART NO.	PART NAME	REMARKS			
TRANSISTOR						
Q382	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q383	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q384	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q401	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q501	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q502	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q503	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q504	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q505	2PA1015 (YG) -T	SI. TRANSISTOR				*
Q506	2PC1815 (YG) -T	SI. TRANSISTOR				*
IC						
IC201	M51494L	I. C.				
IC202	HCF4053BE	I. C.				*
IC203	M52025SP	I. C.				
IC302	TDA4565	I. C.				*
OTHERS						
DL301	CE41881-001J1	DELAY LINE				*
⚠ R506	QRH017J-4R7M	F R	4.7 Ω	1W	J	
⚠ R901	QRH127J-3R3M	F R	3.3 Ω	1/2W	J	
X301	CE41115-001	CRYSTAL				
X501	CSB500F9	CERAMIC RESONATO	R			

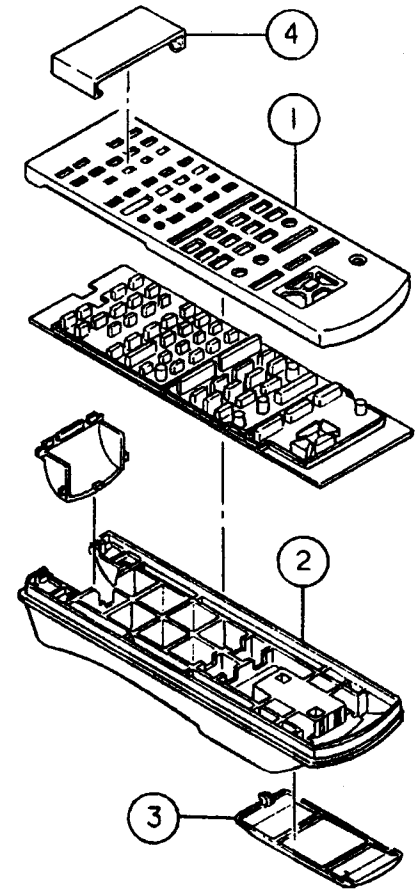
Y/C SEPARATE PC BOARD ASS'Y (SJX-1Y901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS	
CAPACITOR				
C203	QAT3661-200M	TRIM CAP.		
COIL				
L201	CELP026-390ZJ2	P COIL	39μH	*
L301	CELP026-120ZJ2	P COIL	12μH	*
L302	CELP026-5R6ZJ2	P COIL	5.6μH	*
TRANSISTOR				
Q201	2PC1815 (YG) -T	SI. TRANSISTOR		*
Q202	2PC1815 (YG) -T	SI. TRANSISTOR		*
Q204	2PC1815 (YG) -T	SI. TRANSISTOR		*
Q205	2PC1815 (YG) -T	SI. TRANSISTOR		*
Q301	2PC1815 (YG) -T	SI. TRANSISTOR		*
Q302	2PC1815 (YG) -T	SI. TRANSISTOR		*
Q304	2PA1015 (YG) -T	SI. TRANSISTOR		*
Q305	2PC1815 (YG) -T	SI. TRANSISTOR		*
IC				
IC201	HCF4053BE	I. C.		*
IC202	HCF4066BE	I. C.		*

TELETEXT PC BOARD ASS'Y (SJX-1T901AU2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
RESISTOR			
R015	QRD123J-331SX	C R	330 Ω 1/2W J *
CAPACITOR			
C001	QCT25CH-150Z	C CAP.	15pF 50V J *
C006	QCT25CH-101Z	C CAP.	100pF 50V J *
C007	QCT25CH-150Z	C CAP.	15pF 50V J *
C008	QCT25CH-270Z	C CAP.	27pF 50V J *
C011	QCT25CH-180Z	C CAP.	18pF 50V J *
C014	QCZ0118-104M	C CAP.	0.1μF 25V Z
C015	QEPB1HM-225M	BP E CAP.	2.2μF 50V M
C016	QAT3661-300M	TRIMMER CAP.	30pF
C039	QCZ0118-104M	C CAP.	0.1μF 25V Z
C101	QCZ0118-104M	C CAP.	0.1μF 25V Z
C202	QCZ0118-104M	C CAP.	0.1μF 25V Z
C203	QCT25CH-220Z	C CAP.	22pF 50V J *
C204	QCT25CH-220Z	C CAP.	22pF 50V J *
COIL			
L001	CELP026-150ZJ2	P COIL	15μH *
L101	CELP026-1R5J2	P COIL	1.5μH *
L102	CELP026-1R5J2	P COIL	1.5μH *
DIODE			
D101	1SS133-T2	SI. DIODE	*
D102	1SS133-T2	SI. DIODE	*
D103	1SS133-T2	SI. DIODE	*
D201	1SS133-T2	SI. DIODE	*
D202	1SS133-T2	SI. DIODE	*
TRANSISTOR			
Q001	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q002	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q003	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q004	2SC2655 (Y)	SI. TRANSISTOR	*
Q101	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q102	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q103	2PC1815 (YG) -T	SI. TRANSISTOR	*
Q104	2PA1015 (YG) -T	SI. TRANSISTOR	*
IC			
IC001	SAA5231	I. C.	*
IC002	SAA5243P/E	I. C.	*
IC003	FCB61C65-70P	I. C.	*
IC004	PCF84C81P/064	I. C.	*
IC008	PCF8582AP	I. C.	*
OTHERS			
X001	CE41257-001J1	CRYSTAL	*
X002	CSA6.00MT	CERAMIC FILTER	
X003	CE41258-A01J1	CRYSTAL	*

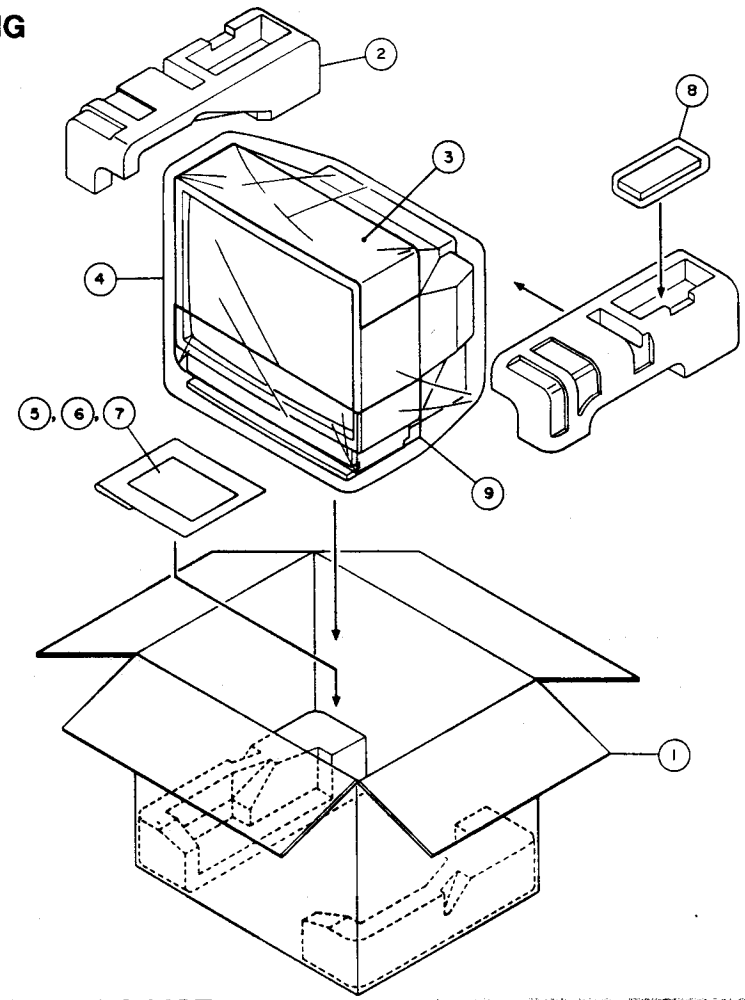
REMOCON



REMOCON PARTS LIST (RM-C861-E)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
1	2R-C0082-01#01	FRONT CASE	*
2	2R-C0082-02#01	BOTTOM CASE	*
3	2R-C0082-03#01	BATTERY COVER	*
4	2R-C0082-05#01	SLIDE LOVER	*

PACKING



PACKING PARTS LIST

SYMBOL NO.	PART NO.	PART NAME	REMARKS
1	AEM1002-003-E	EURO BOX	*
2	CP11040-00A-E	CUSHION ASSY	*
3	CP40193-002-E	CUSHION SHEET	*
4	CP30320-003-E	POLY BAG	*
5	RT-20086A-E	ADDRESS CARD	*
6	RT-20060-E	WARRANTY CARD	*
7	21.25FIEKIBA-E	INST BOOK	*
8	RM-C861-E	RC HAND PIECE	*
9	CP40193-007-E	CUSHION SHEET	*

JVC (U.K.) Limited

JVC House
Eldonwall Trading Estate, Priestley Way,
London NW2 7BA Telex: 923320
Telephone (081)-450 3282 FAX: (081)-452 2534

and at

1 Olympia Industrial Estate, Gelderd Road, Leeds 12
Telephone: (0532) 795741 FAX: (0532) 633987

JVC
VICTOR COMPANY OF JAPAN,LIMITED
TETEVISION RECEIVER DIVISION 1106 Iwai-city,Ibaraki-prefecture,306-06,Japan

GP10.90/1.5M

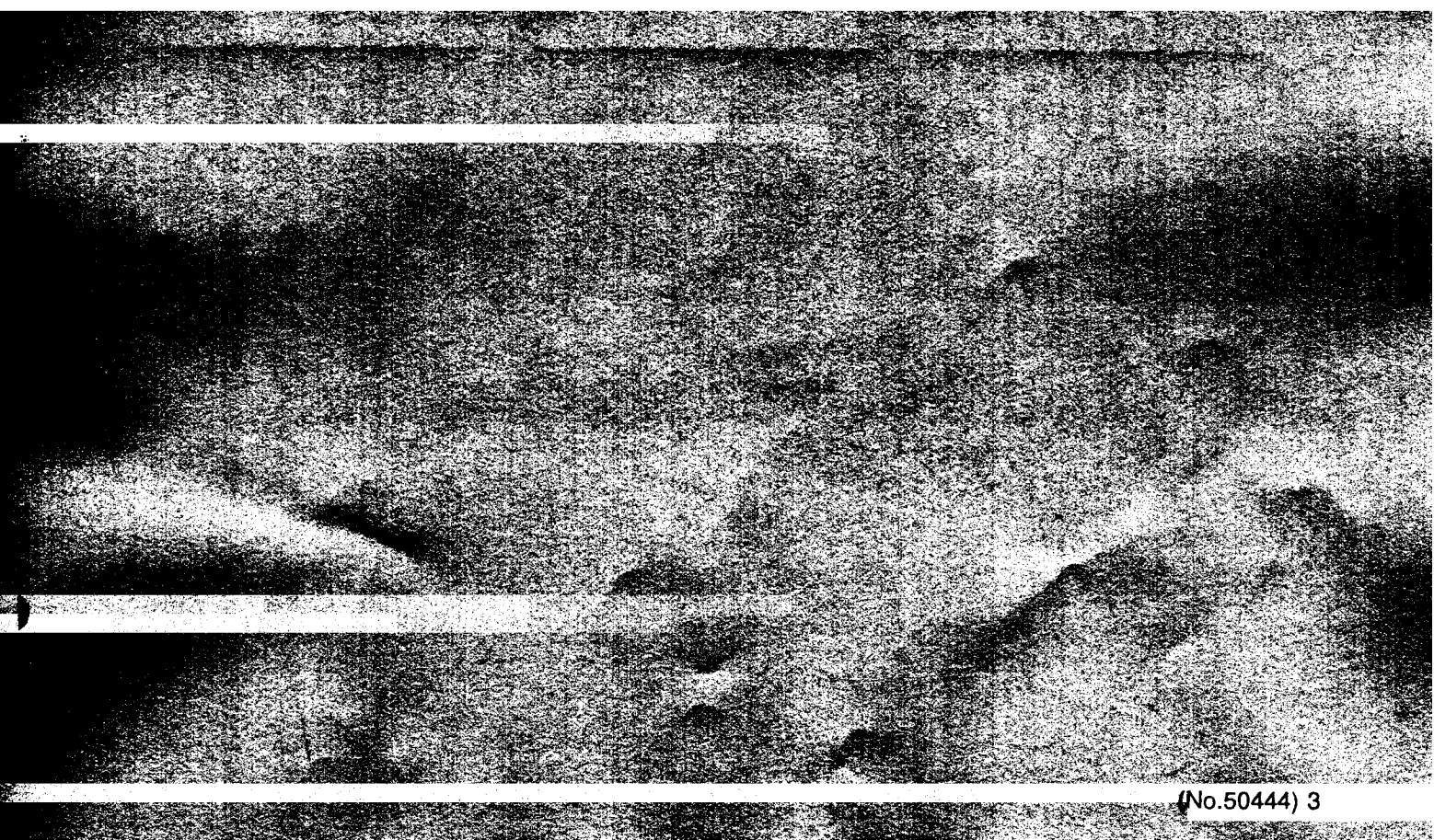
Printed in the U

SAFETY PRECAUTIONS

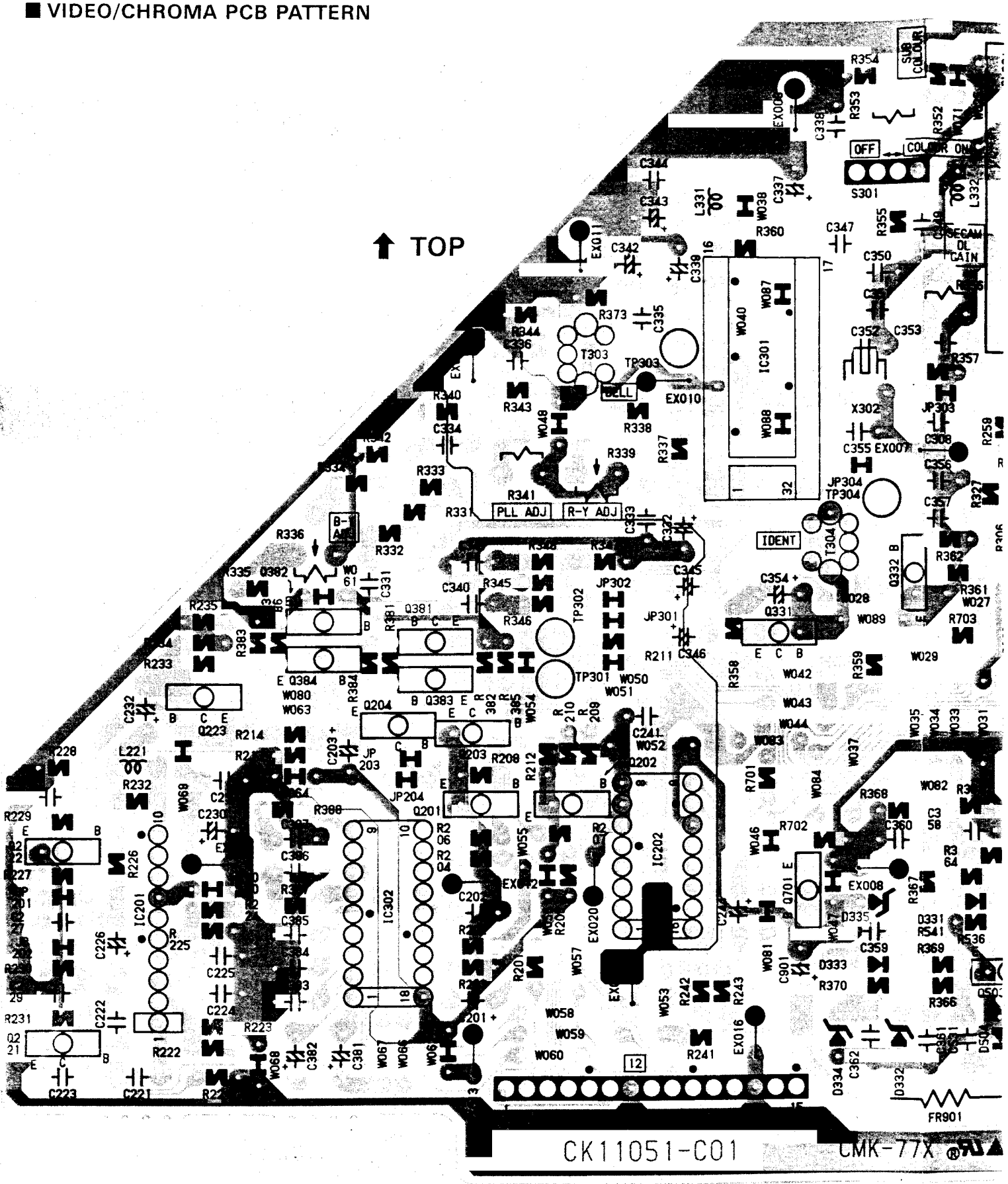
1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replace ment components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

WARNING

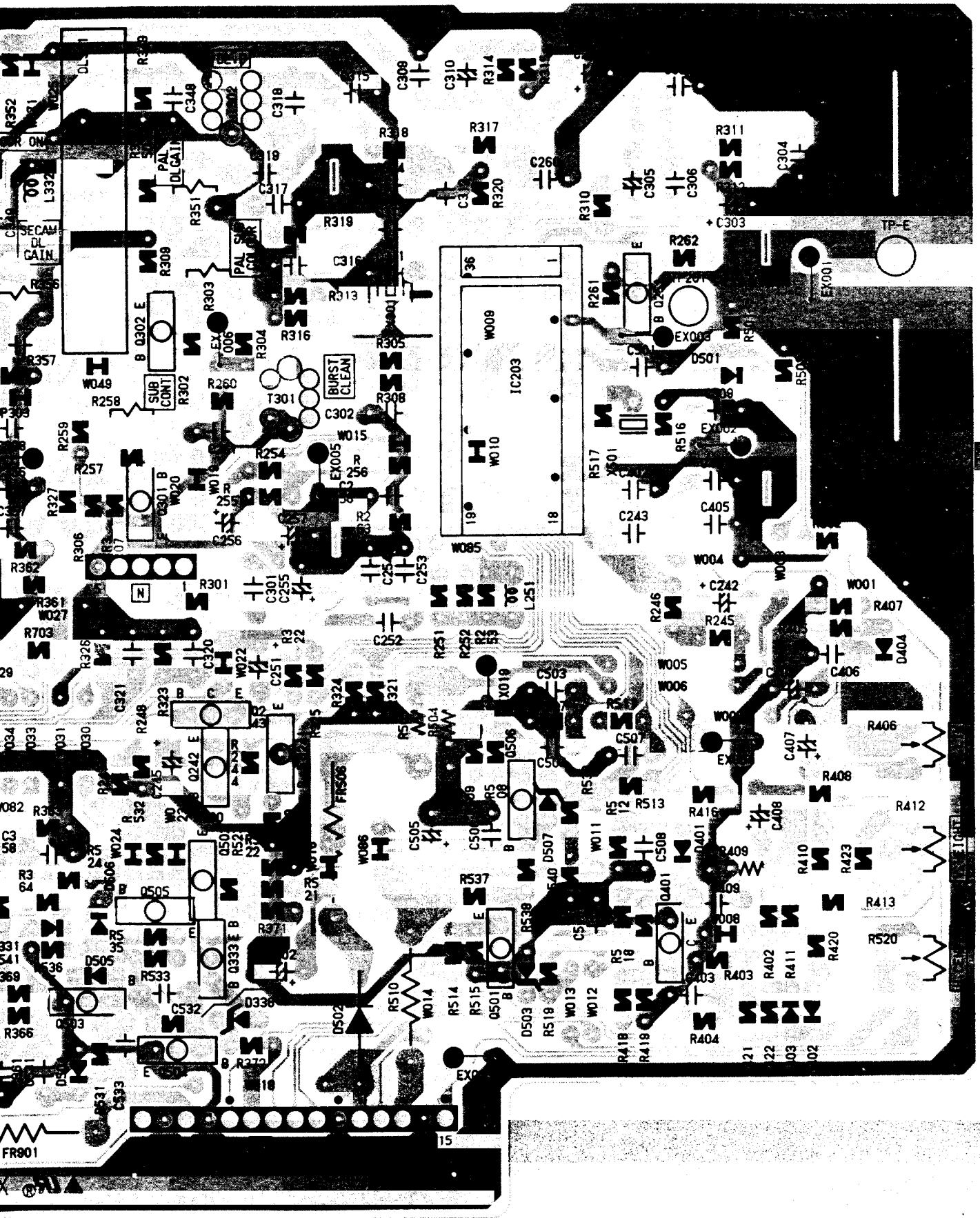
1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.



■ VIDEO/CHROMA PCB PATTERN



: solder side (signal etc.) : solder side (ground) : part side (signal)


IC203
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W010
W049
W001
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SUB CONT
BURST CLEAN
PAL DL GAIN
SECAM DL GAIN
TP-E
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FR506
T301
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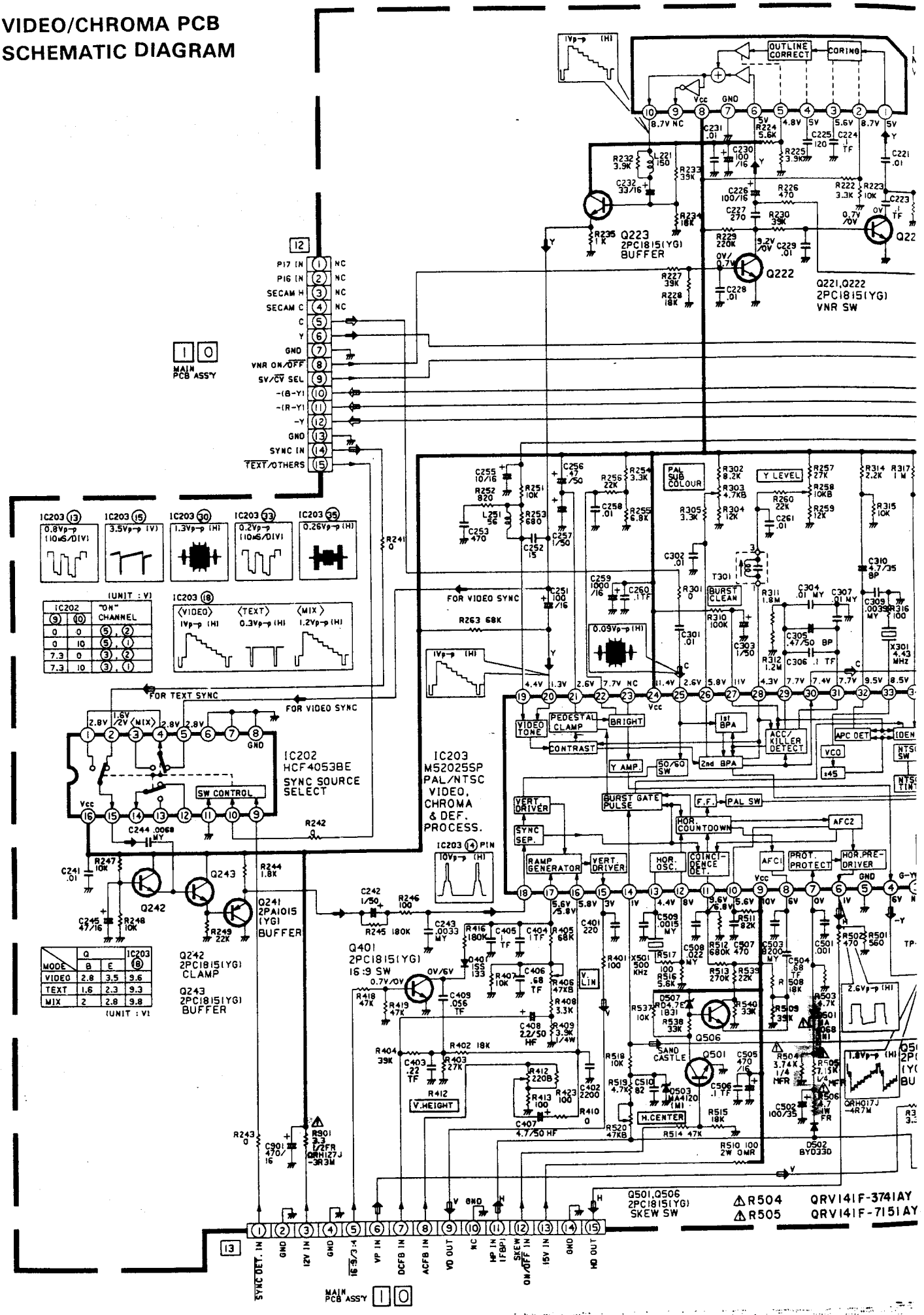
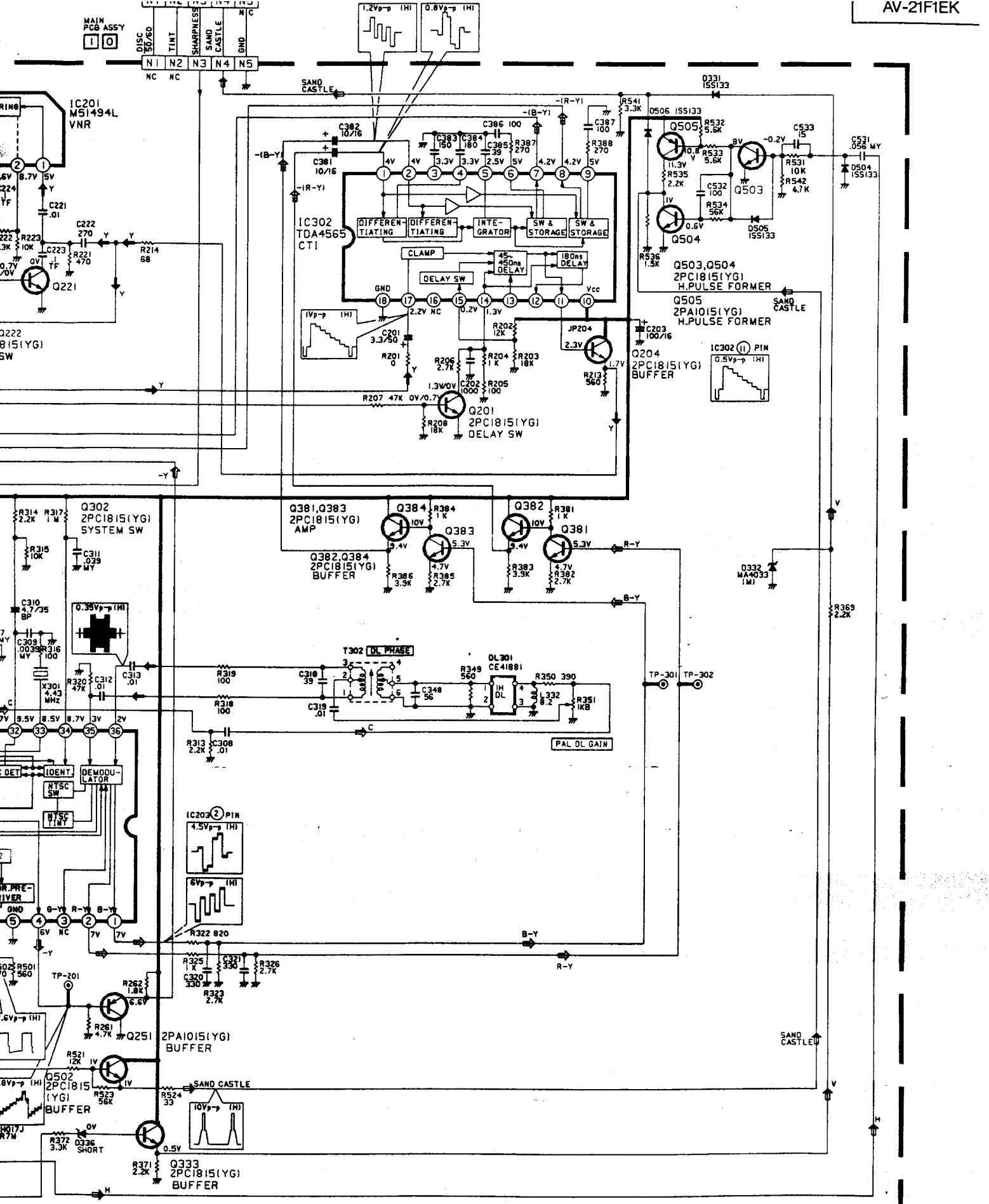
R1000

■ VIDEO/CHROMA PCB SCHEMATIC DIAGRAM

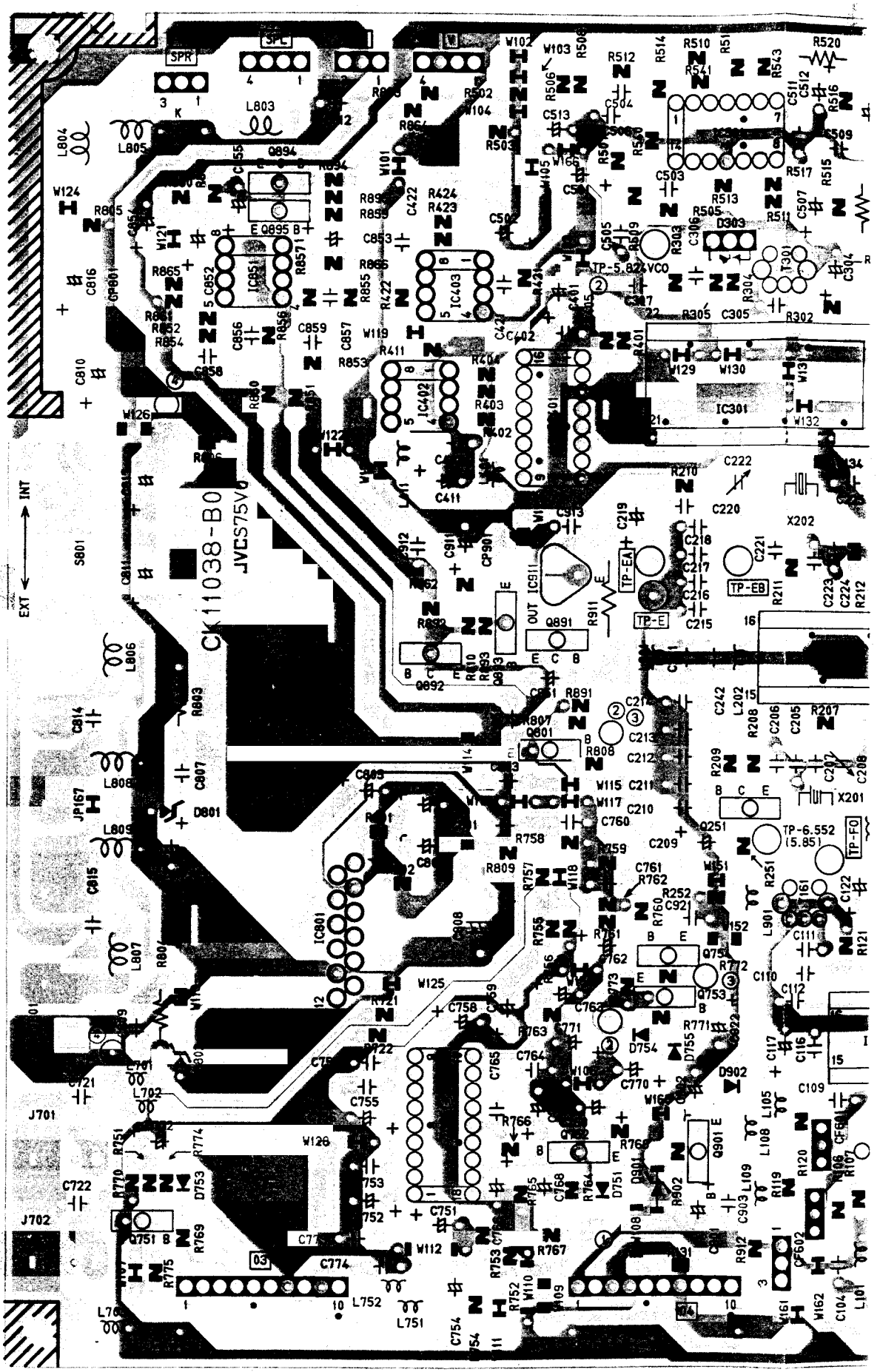




F-3741AY
F-7151AY

VIDEO CHROMA PCB ASS'Y SJX-IV902A(21") IV

■ AUDIO PCB BACK PATTERN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L752
L751
Q894
Q895
Q892
Q891
Q801
Q751
Q753
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Q902
IC403
IC402
IC301
IC801
IC911
D303
D801
D754
D751
D753
D902
TP-5.82VCO
TP-EA
TP-EB
TP-E
TP-6.552
(5.85)
TP-FO
X202
X201
J701
J702
W102
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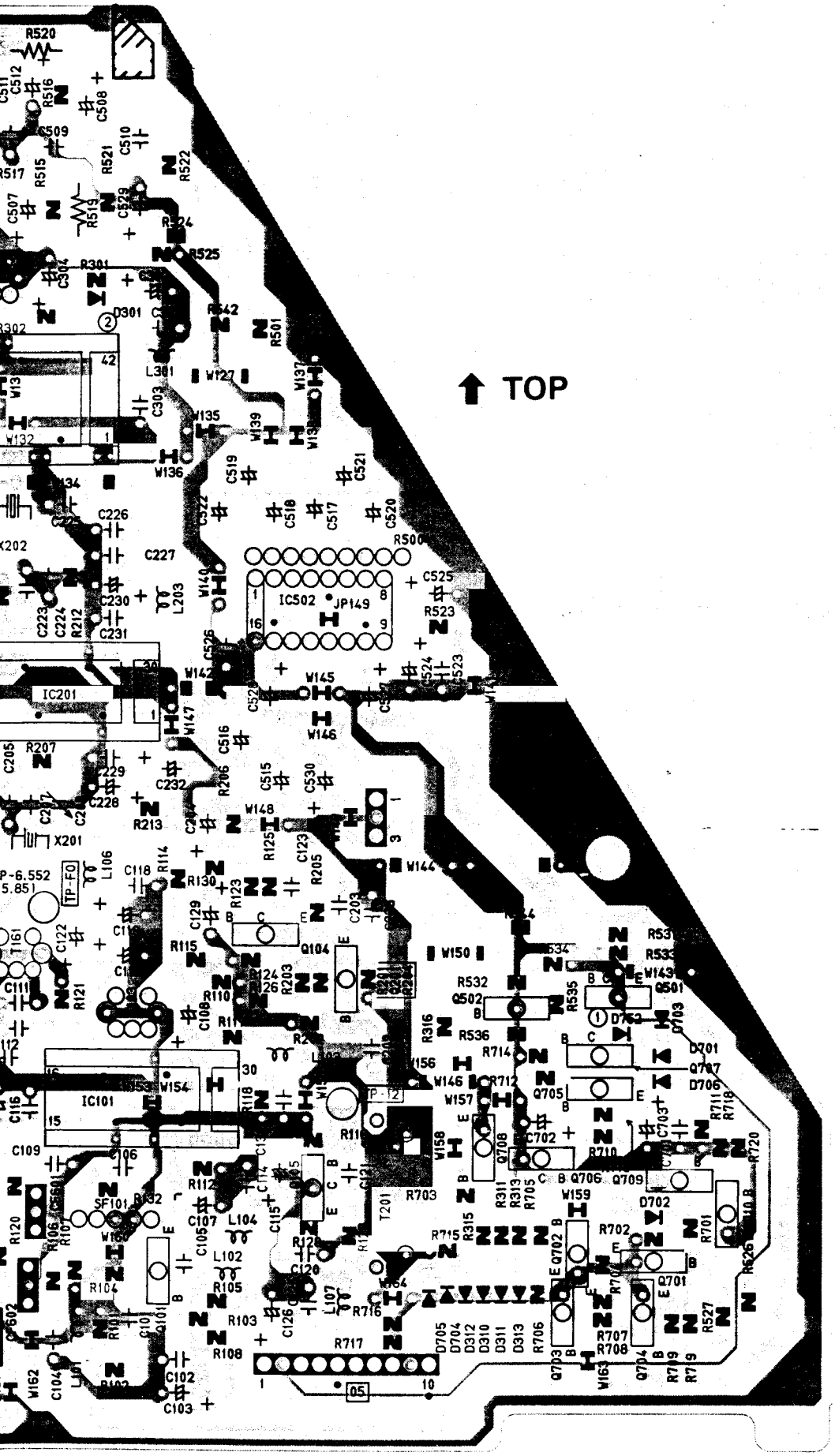
TOP
IC201
IC101
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X202
Q104
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Q501
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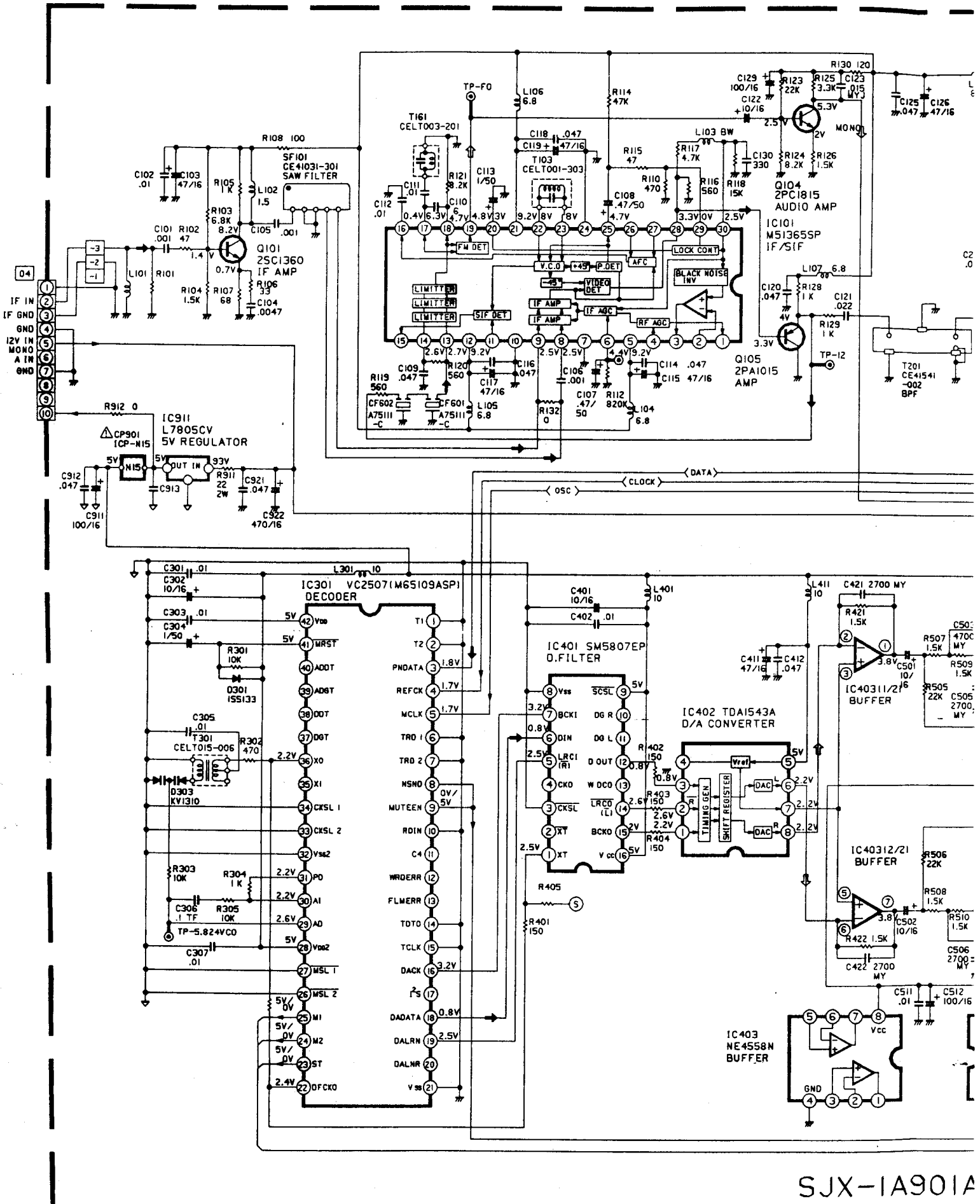
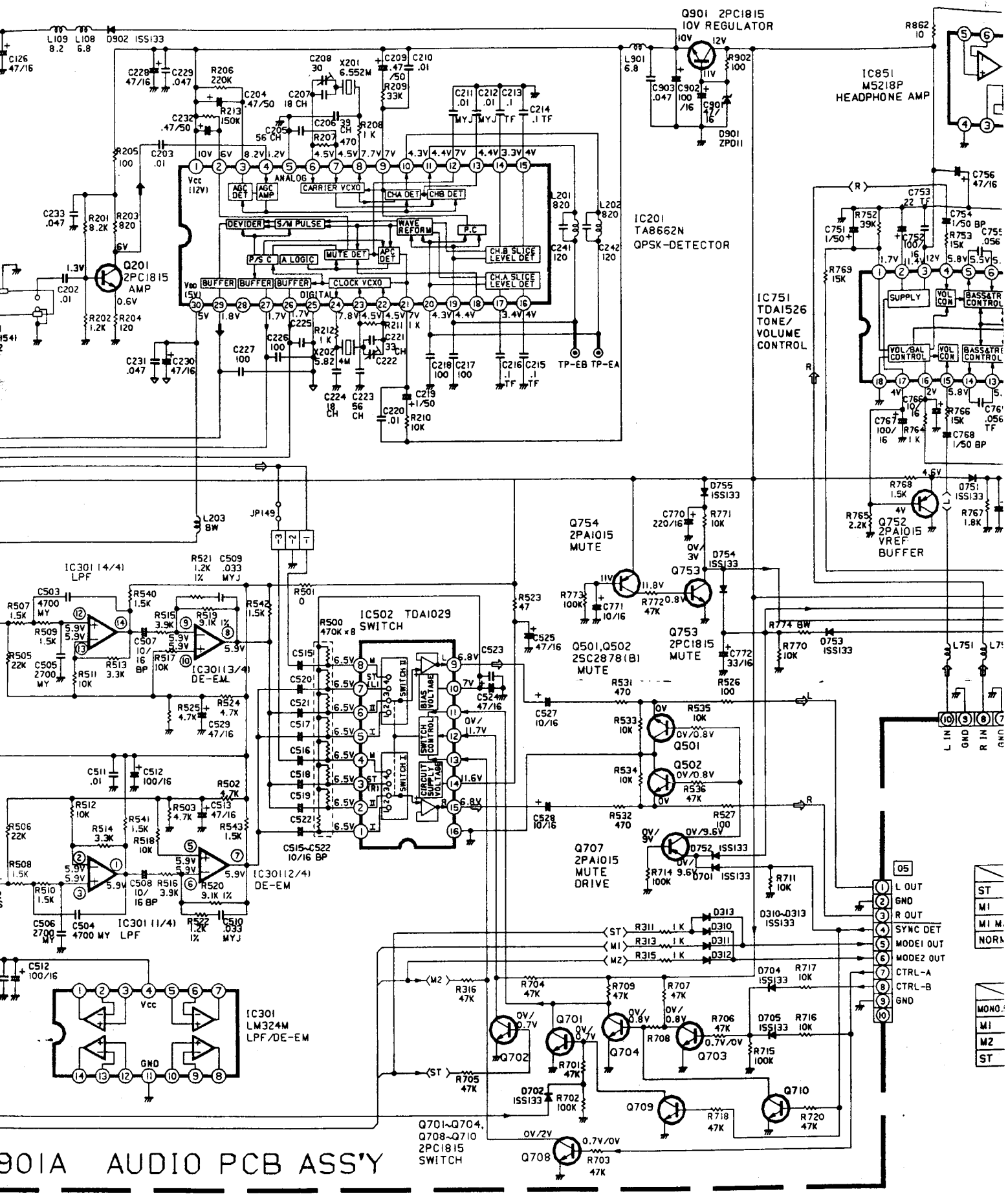
Q703
Q704
T201
SF101
TP-F0
TP-12

■ AUDIO PCB SCHEMATIC DIAGRAM

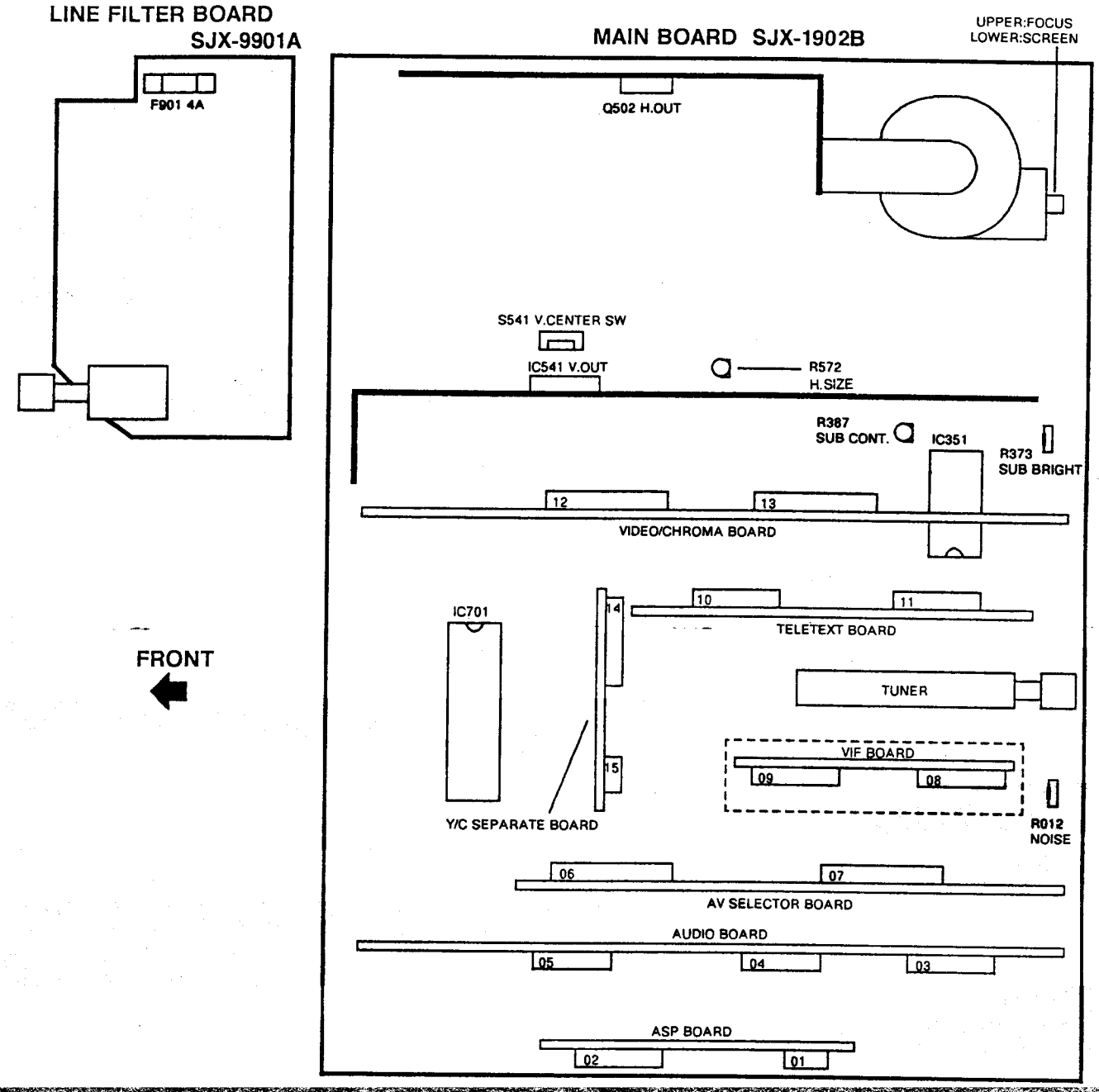


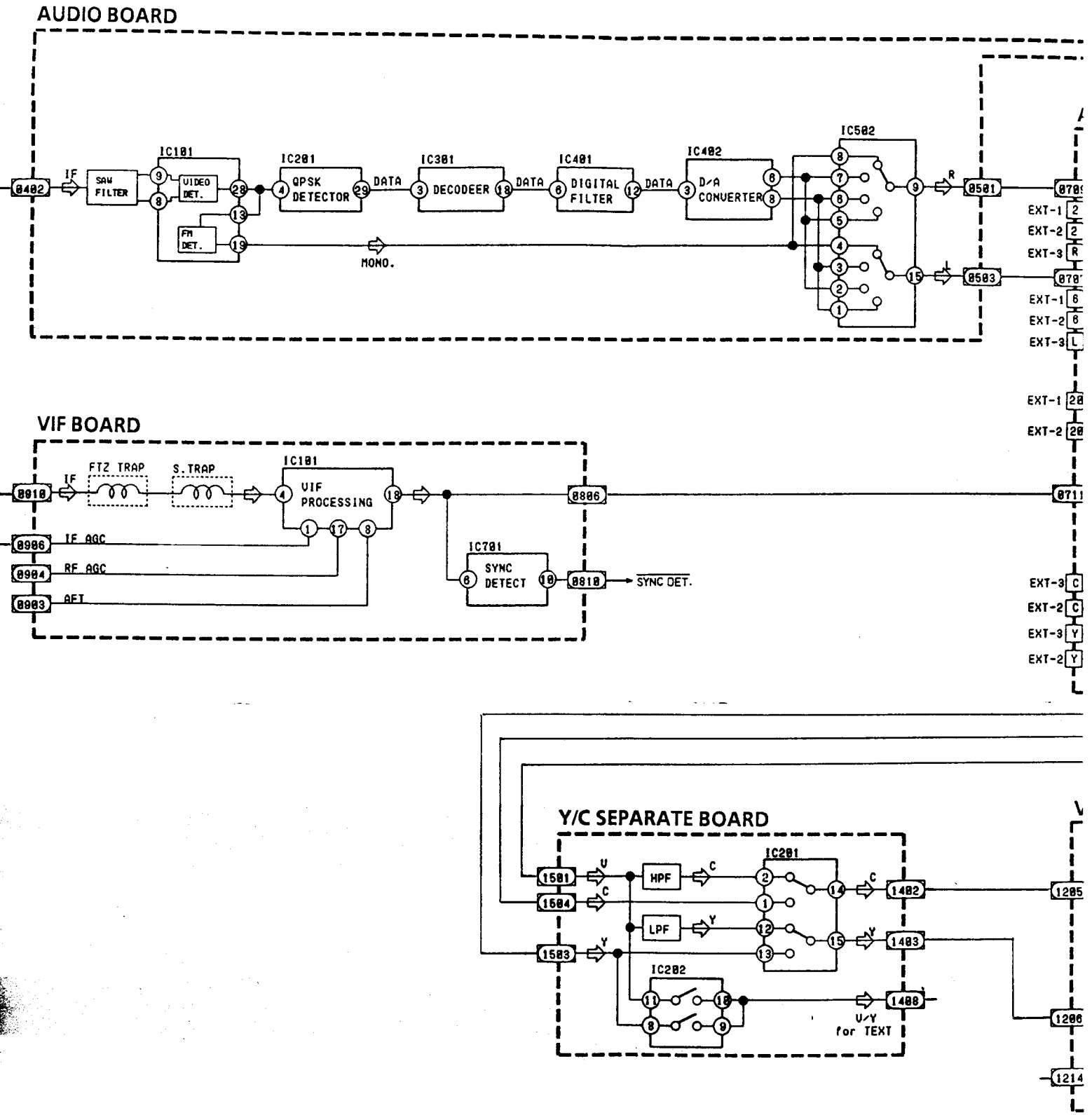
SJX-1A901A

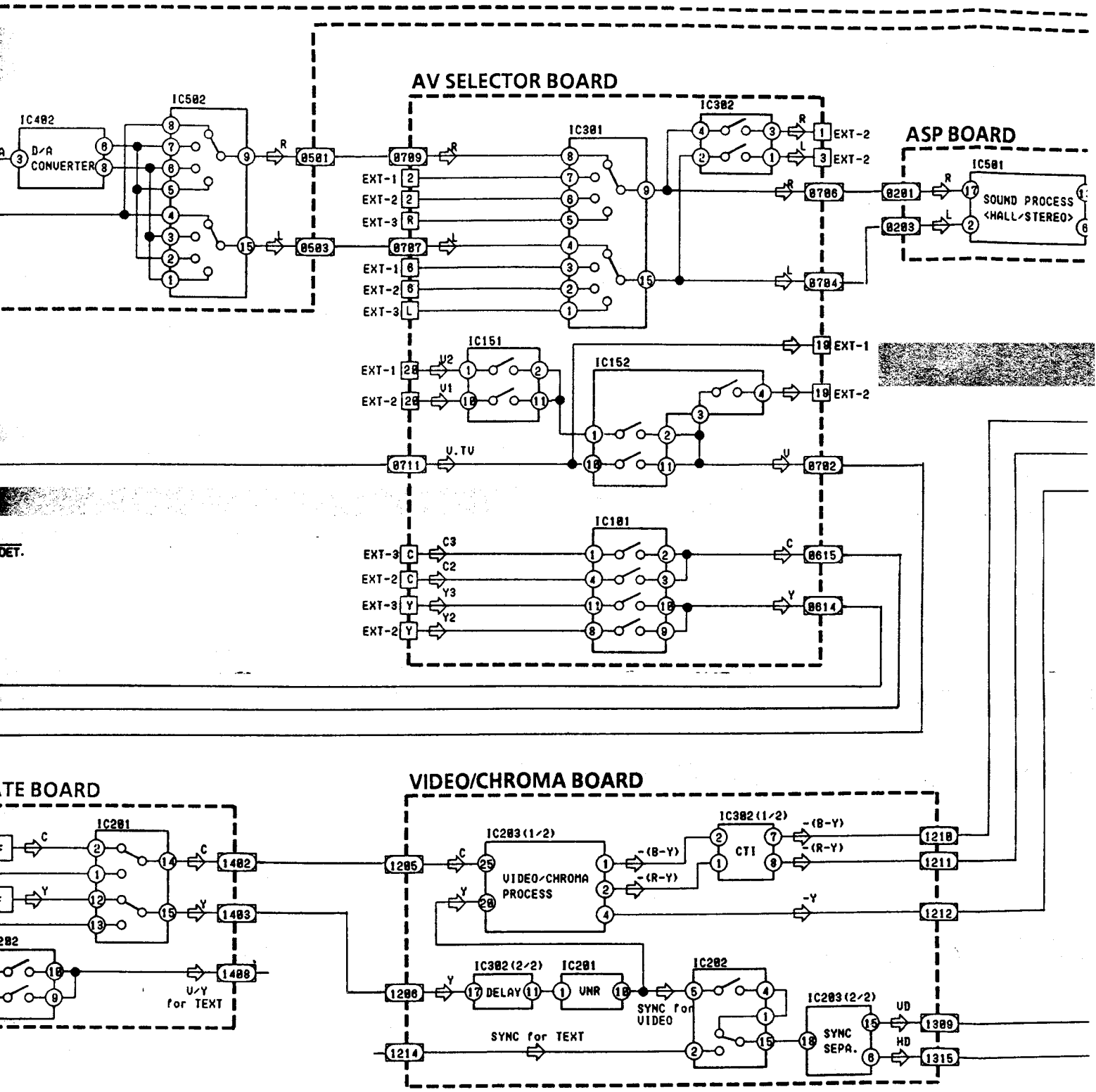


901A AUDIO PCB ASS'Y

3. ALIGNMENT LOCATION




AUDIO BOARD
IC101
IC201
IC301
IC401
IC402
IC502
8402
IF
SAW FILTER
VIDEO DET.
FM DET.
QPSK DETECTOR
DATA
DECODEER
DIGITAL FILTER
D/A CONVERTER
MONO.
R
L
8501
8503
EXT-1
EXT-2
EXT-3
VIF BOARD
8018
FTZ TRAP
S.TRAP
VIF PROCESSING
8006
8007
8004
8003
IF AGC
RF AGC
AFT
IC701
SYNC DETECT
8010
SYNC DET.
Y/C SEPARATE BOARD
1501
1504
1503
HPF
LPF
IC201
IC202
1402
1403
1408
U/Y for TEXT
1205
1206
1214


AV SELECTOR BOARD
ASP BOARD
VIDEO/CHROMA BOARD
IC482
D/A CONVERTER
IC502
IC381
IC382
IC501
SOUND PROCESS <HALL/STEREO>
IC151
IC152
IC101
IC201
IC203(1/2)
IC382(1/2)
IC382(2/2)
IC202
IC203(2/2)
VIDEO/CHROMA PROCESS
CTI
DELAY
VNR
SYNC for VIDEO
SYNC for TEXT
SYNC SEPA.
U/Y for TEXT
EXT-1
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EXT-3
0501
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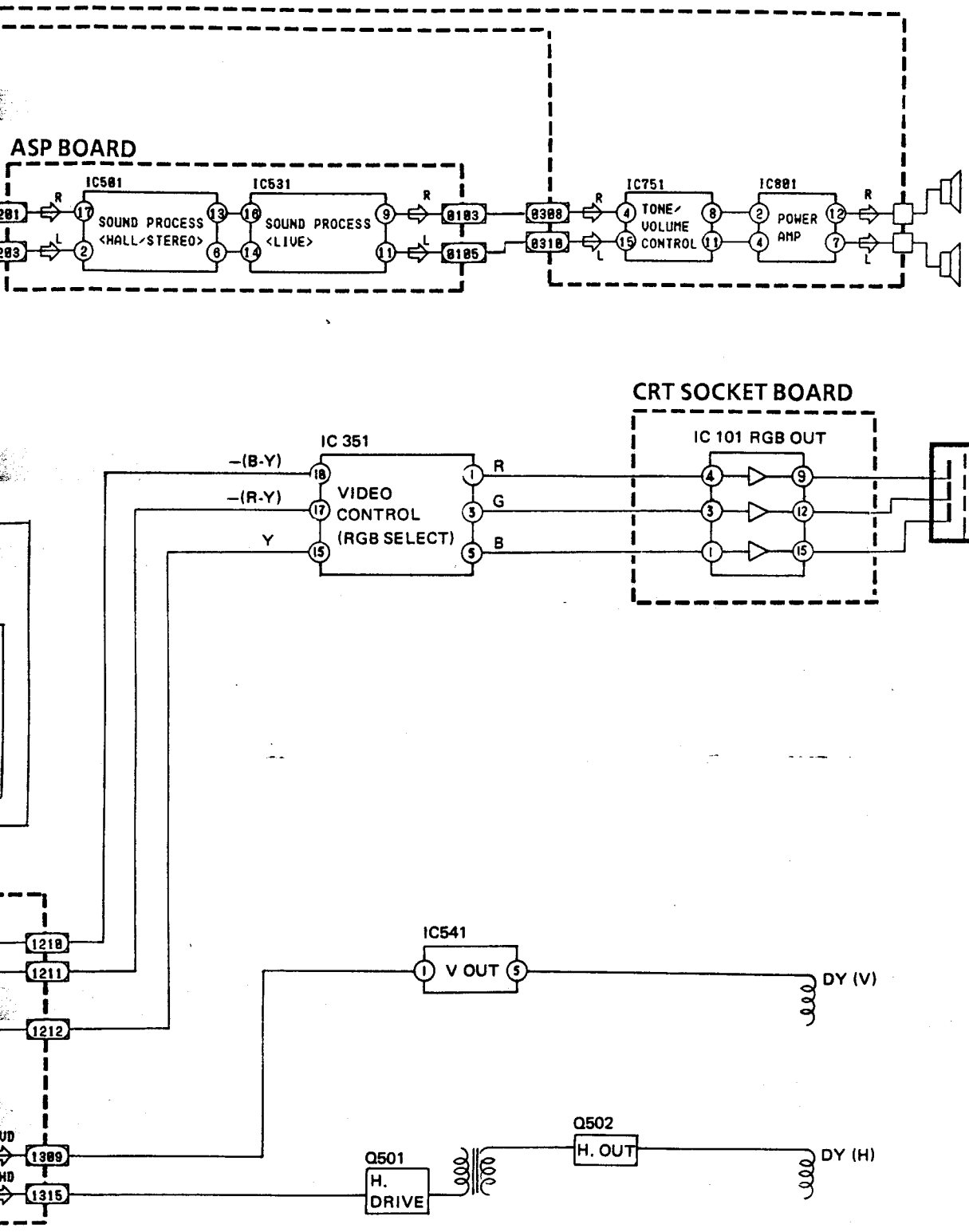
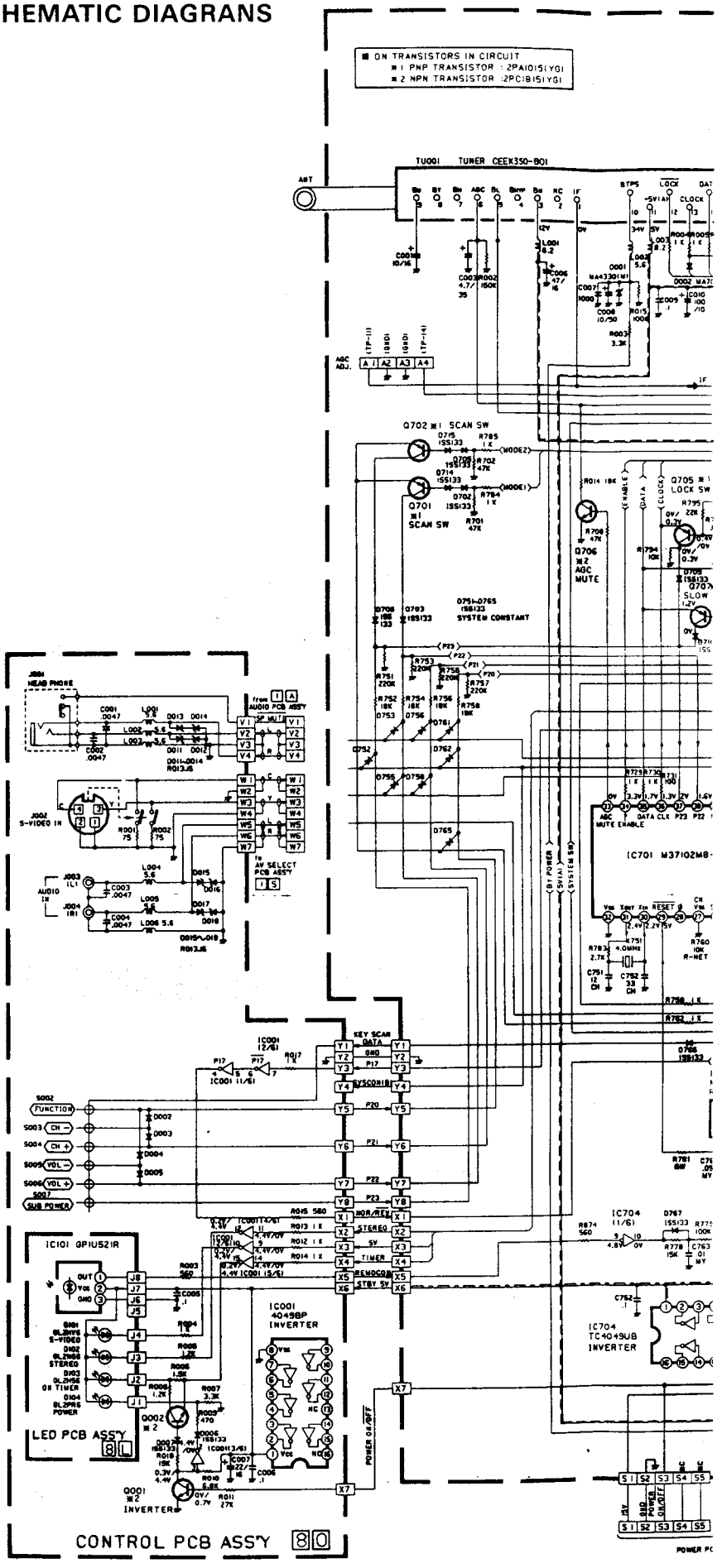
1408
1205
1206

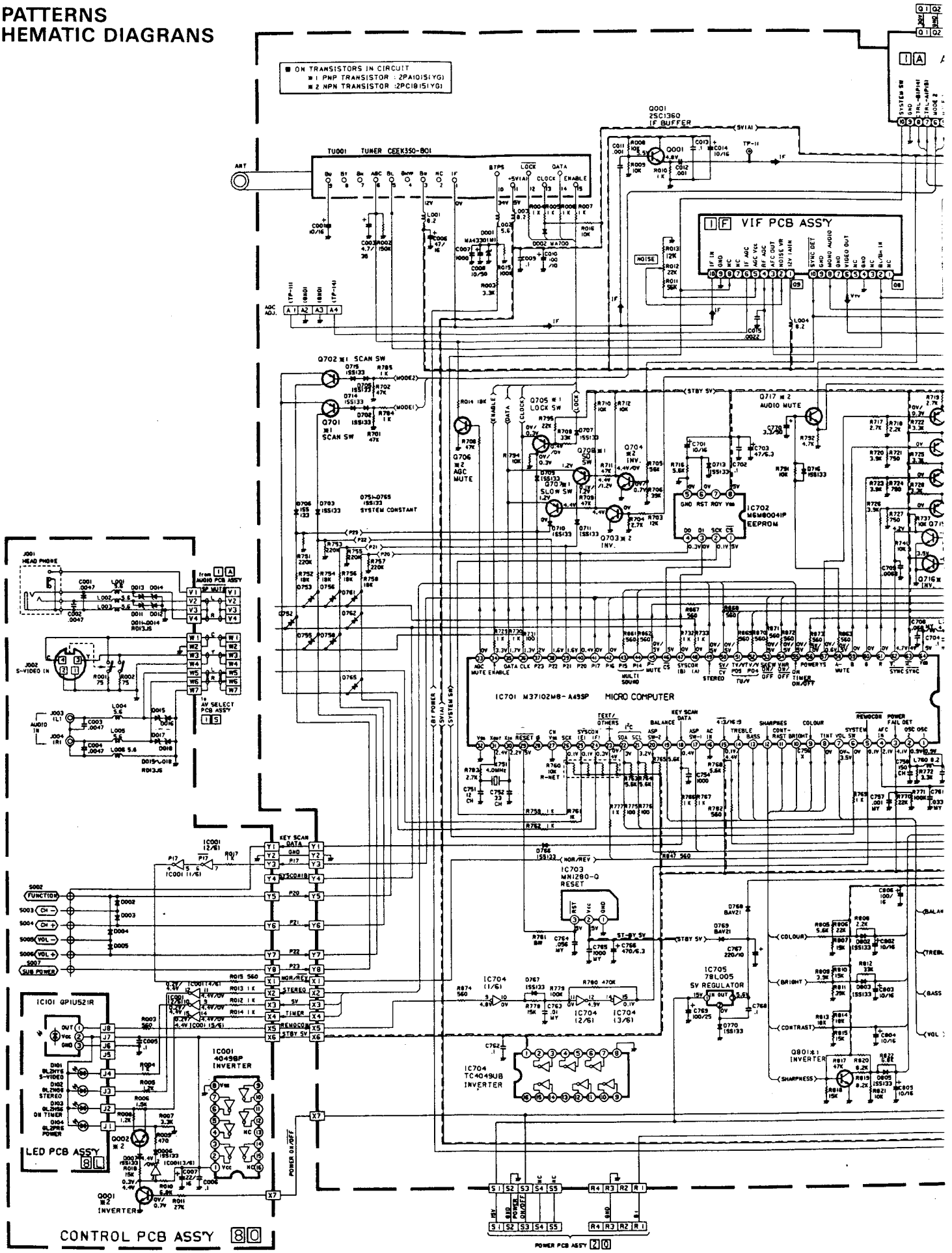

ASP BOARD
IC501
IC531
SOUND PROCESS
<HALL/STEREO>
SOUND PROCESS
<LIVE>
IC751
TONE/
VOLUME
CONTROL
IC801
POWER
AMP
CRT SOCKET BOARD
IC 351
IC 101 RGB OUT
-(B-Y)
-(R-Y)
Y
VIDEO
CONTROL
(RGB SELECT)
R
G
B
IC541
V OUT
DY (V)
Q502
H. OUT
DY (H)
Q501
H.
DRIVE

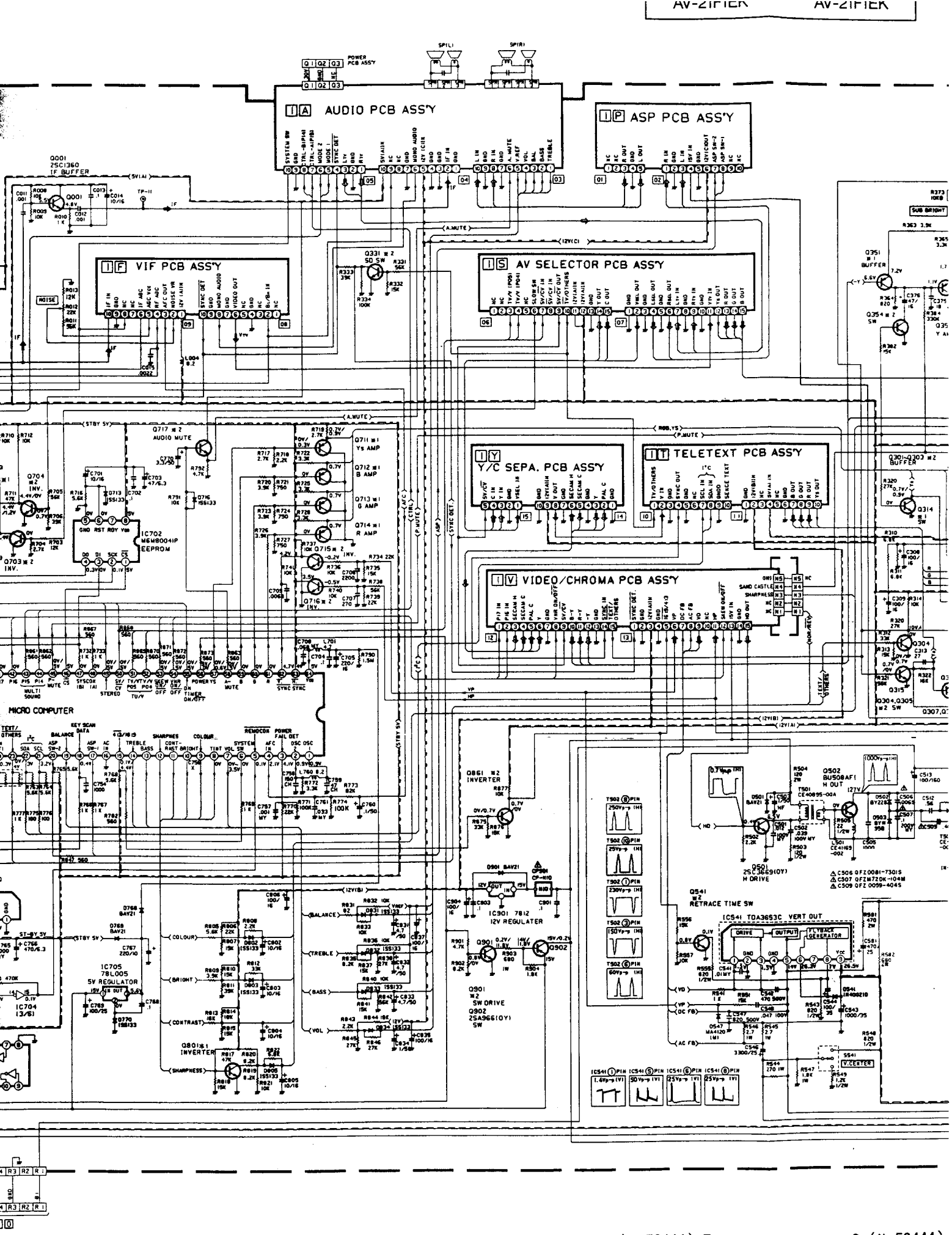
5. SCHEMATIC DIAGRAMS AND BACK PATTERNS

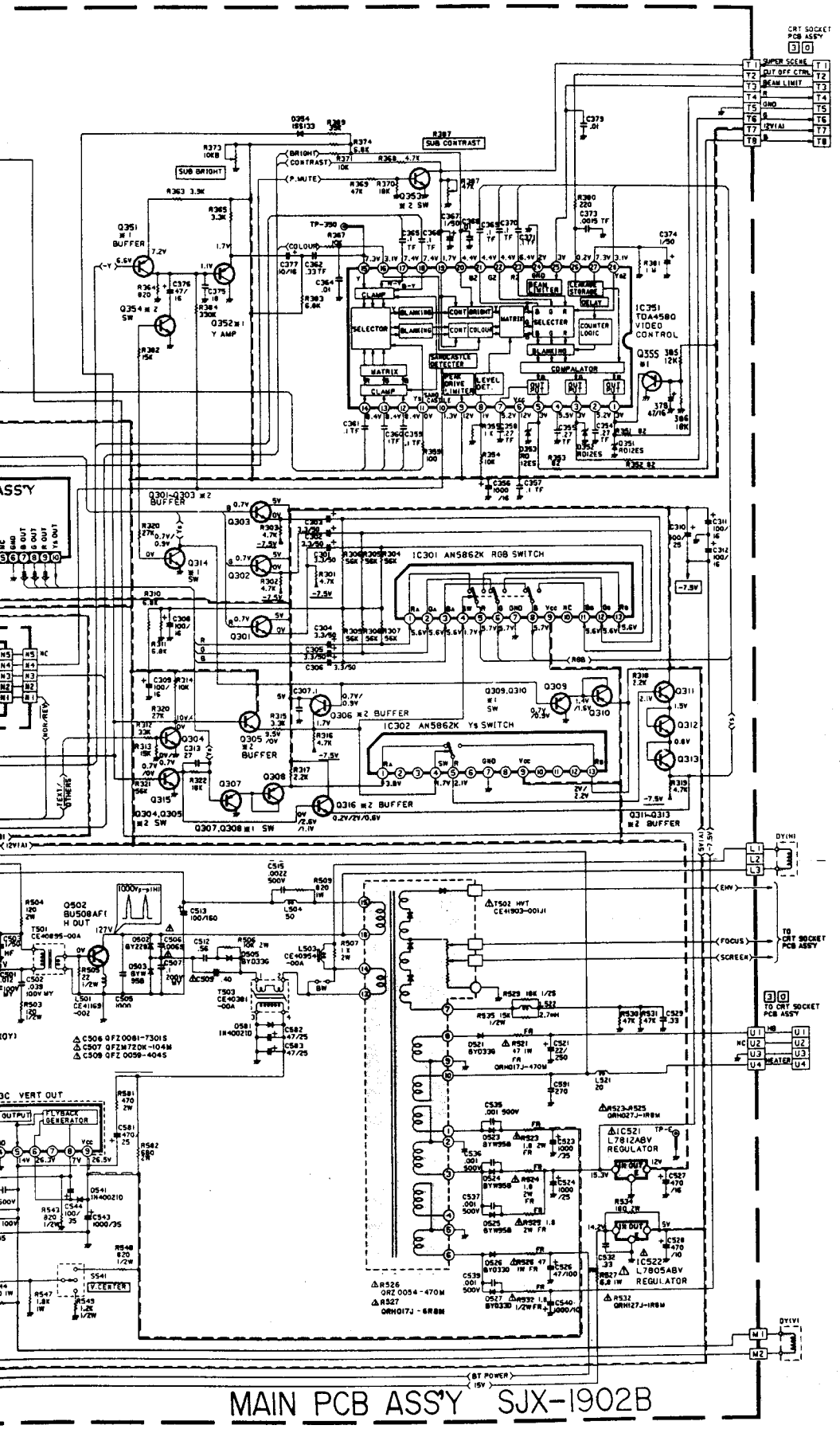
■ MAIN PCB AND CONTROL PCB SCHEMATIC DIAGRANS



BACK PATTERNS
CB SCHEMATIC DIAGRANS

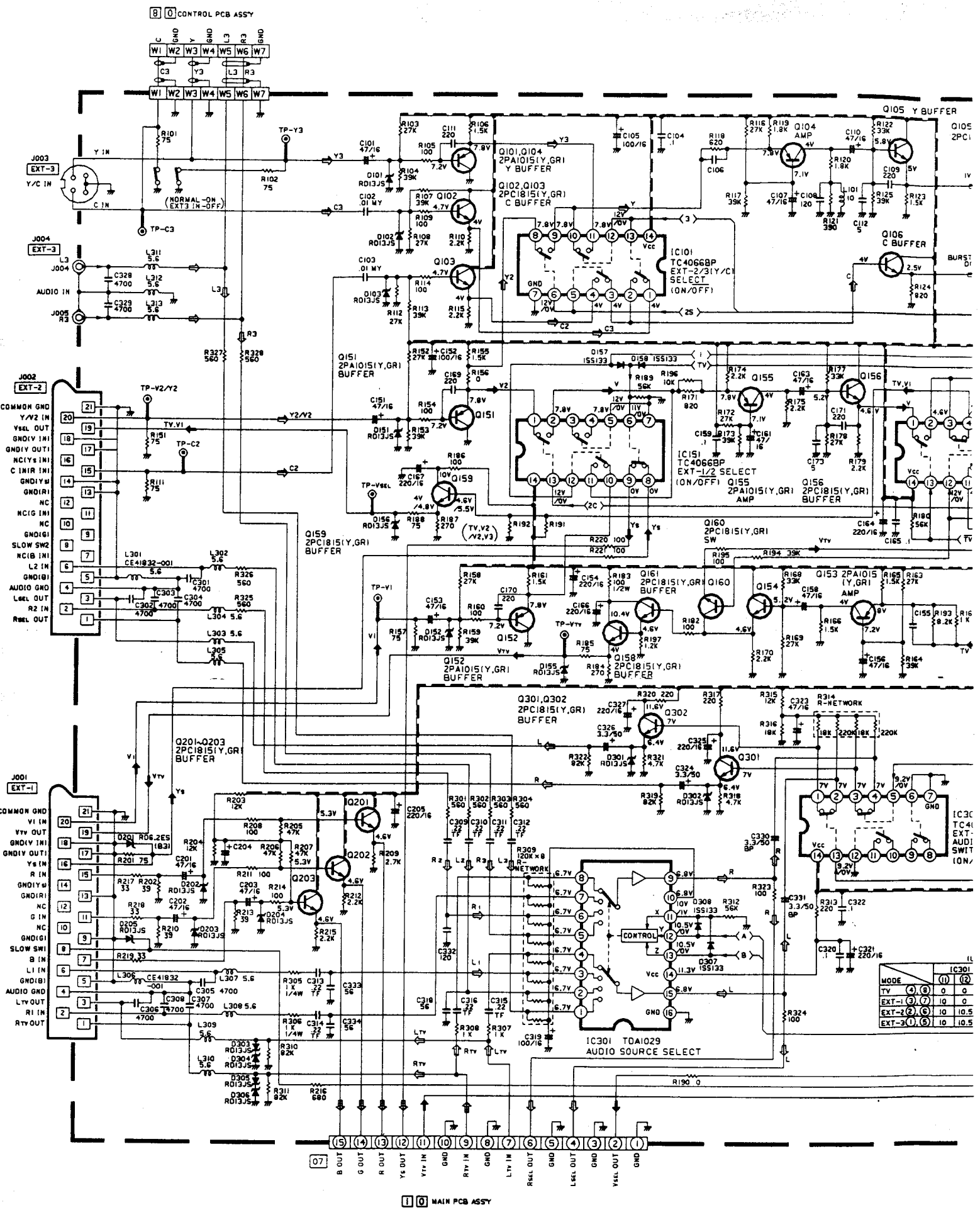



AV-21F1ER
AV-21F1ER
POWER PCB ASS'Y
SP(L)
SP(R)
IA AUDIO PCB ASS'Y
IP ASP PCB ASS'Y
IF VIF PCB ASS'Y
IS AV SELECTOR PCB ASS'Y
IY Y/C SEPA. PCB ASS'Y
IT TELETEXT PCB ASS'Y
IV VIDEO/CHROMA PCB ASS'Y
Q001 2SC1360 IF BUFFER
Q331 SD SW
Q717 AUDIO MUTE
Q711 Ys AMP
Q712 B AMP
Q713 G AMP
Q714 R AMP
Q715 INV.
Q716 INV.
Q704 INV.
Q703 INV.
IC702 M64W80041P EEPROM
MICRO COMPUTER
Q861 INVERTER
Q801 INVERTER
IC901 7812 12V REGULATOR
IC705 78L005 5V REGULATOR
IC704
Q901 SW DRIVE
Q902 2SA966(OY) SW
Q541 RETRACE TIME SW
IC541 TDA3653C VERT OUT
Q502 BU508AF1 H OUT
Q501 2SC3669(OY) H DRIVE
(No.50444) 7
8 (No.50444)



- VIF PCB 20
- AV SELECTOR PCB 23
- Y/C SEPA. PCB 10
- VIDEO/CHROMA PCB 14
- AUDIO PCB 17
- ASP PCB 23
- TELETEXT PCB 18
- POWER PCB 24

■ AV SELECTOR PCB SCHEMATIC DIAGRAM



SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

■ Removing the rear cover

1. The rear cover can be removed by removing the 9 screws of Ⓐ as shown in Fig.1.

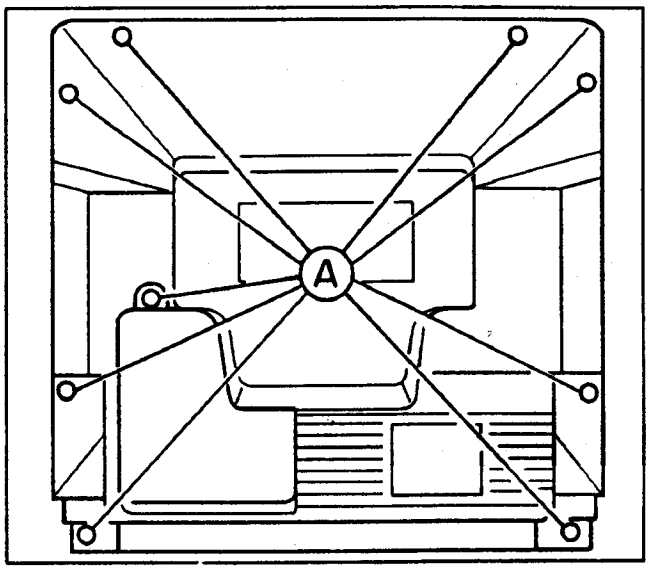


Fig.1 Removing the rear cover

■ Removing the speaker assy

1. Remove the rear cover.
2. The speaker assy can be removed by pulling it in the direction of arrow ⓐ shown in Fig.2.
3. The opposite side can be removed in the same way.

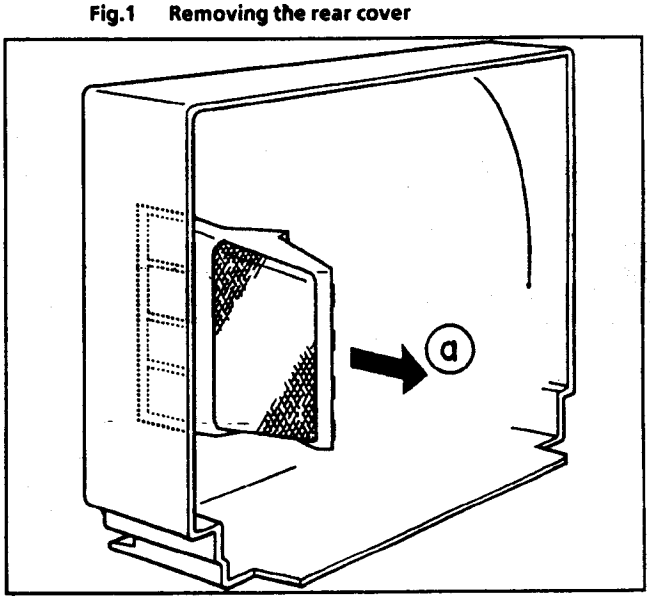


Fig.2 Removing the speaker assy

■ Removing the chassis

1. Remove the rear cover.
2. Remove both sides of the speaker box.
3. Draw out the chassis in the direction of arrow ⓑ.

Note) Before performing the conductivity check, make sure that the ground of the CRT is connected.

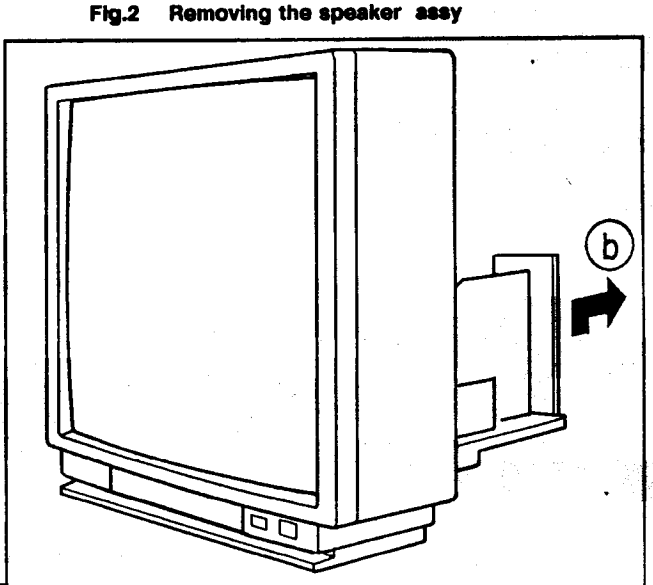
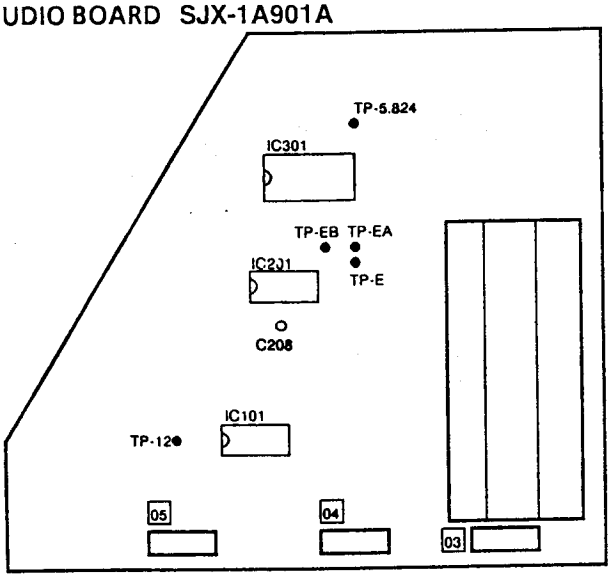
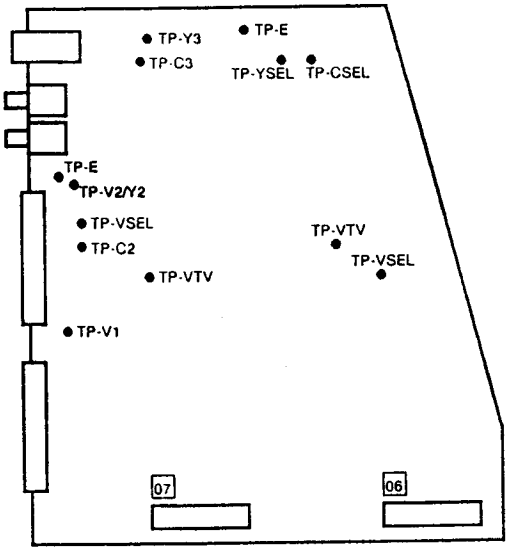


Fig.3 Removing the chassis

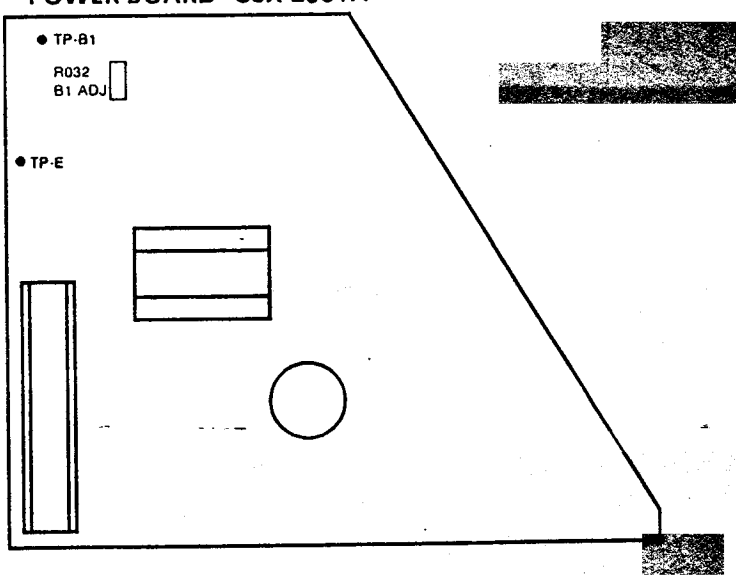
AUDIO BOARD SJX-1A901A



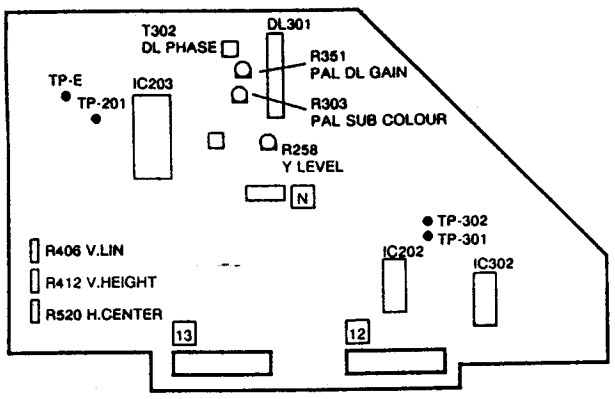
AV SELECTOR BOARD SJX-1S901A



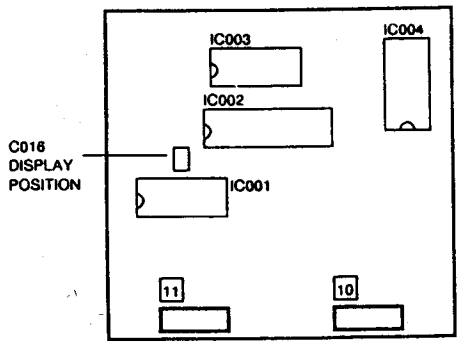
POWER BOARD SJX-2901A



VIDEO/CHROMA BOARD SJX-1V902A

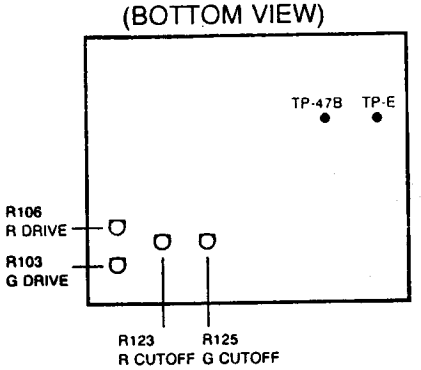


TELETEXT BOARD SJX-1T901A



CRT SOCKET BOARD SJX-3902A

(BOTTOM VIEW)



■ Removing the POWER BOARD

1. Remove the chassis.
2. The POWER BOARD can be removed by pulling a little bit in the direction of arrow ⓒ and lifting up while pressing claw Ⓒ.

■ Removing the terminal cover

1. Remove the chassis.
2. The terminal cover can be removed by pressing claw Ⓓ and lifting claw Ⓔ, then pulling it in the direction of arrow ⓓ.

■ Removing the front chassis

1. The front chassis can be removed by opening claw Ⓕ and lifting it in the direction of arrow ⓔ.

■ Removing the upright board

1. Remove the terminal cover.
2. The upright board stands on the MAIN BOARD with the connector. Lift out the board for replacement.

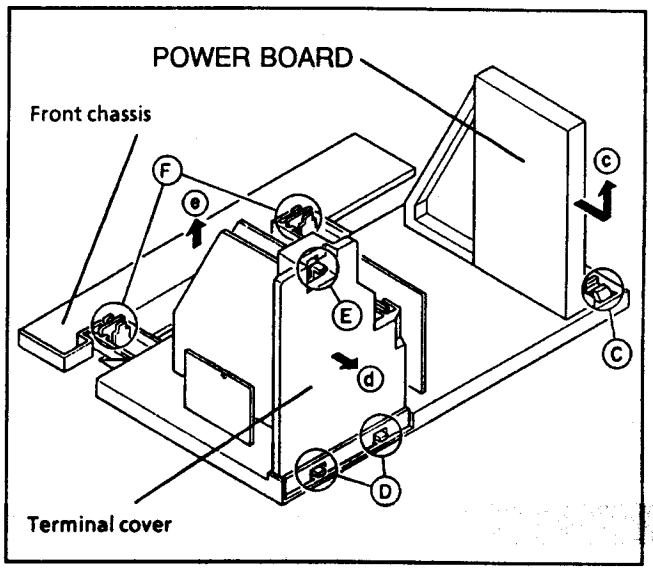


Fig.4 Removing the board

■ Removing the speaker

1. Speaker 1 can be removed by removing the screws of Ⓖ.
2. Speaker 2 can be removed by removing the 2 screws of Ⓗ.

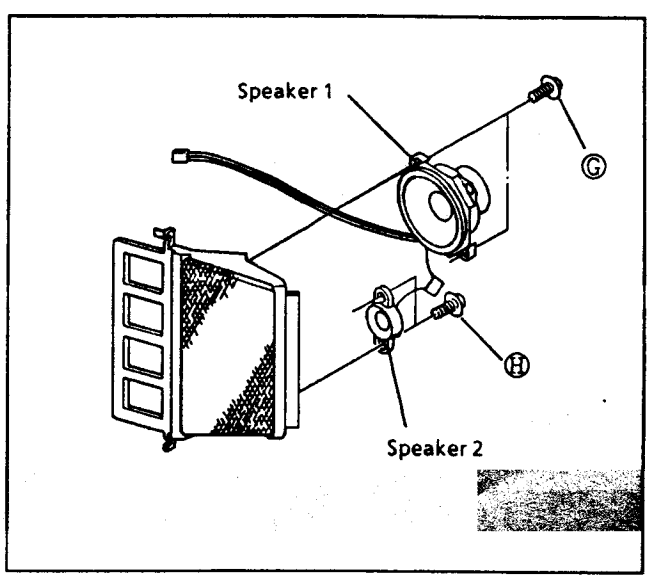
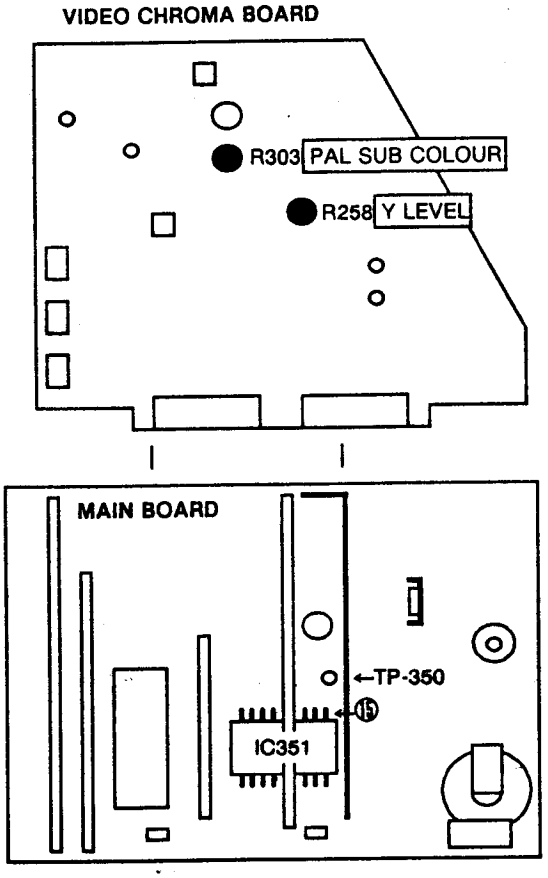
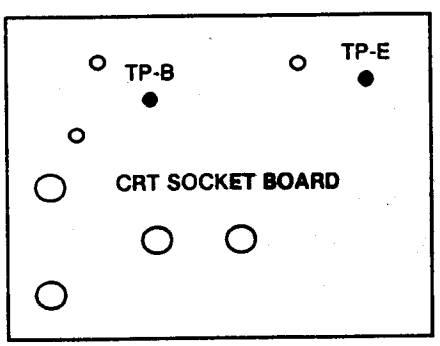


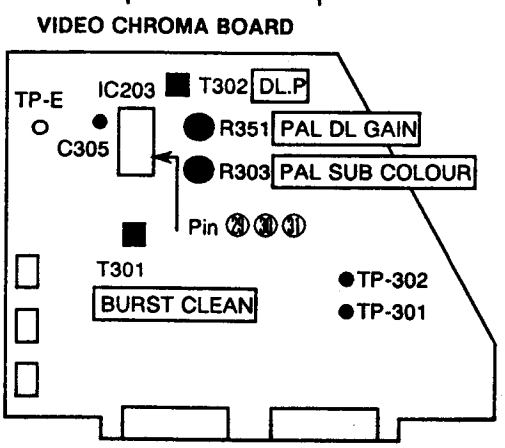
Fig.5 Removing the speakers

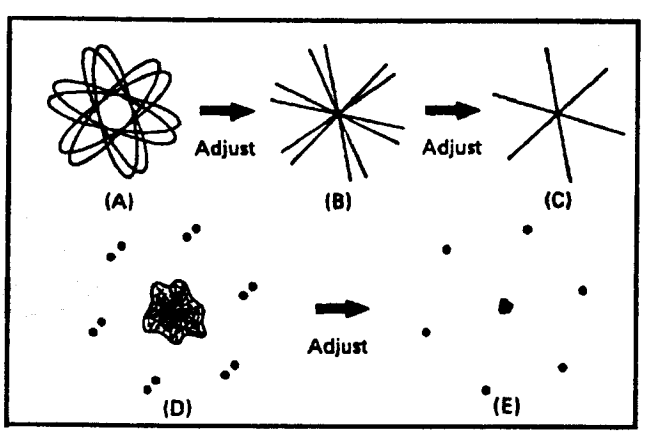
No.	Item	Measuring instrument	Test point	Adjustment part	Description
11	Y LEVEL adjustment	Pattern generator oscilloscope	TP-350 (or PIN ⑮ of IC 351) [MAIN BOARD]	R258 (Y LEVEL) [VIDEO CHROMA BOARD]	1. Input a split color bar signal. 2. Connect the oscilloscope with TP-350 (or PIN ⑮ of IC 351) of the MAIN BOARD. 3. Adjust the voltage between 100% white signal and pedestal to be 0.34V.
12	SUB COLOR adjustment	Pattern generator Oscilloscope	TP-B TP-E [CRT SOCKET BOARD]	R303 (PAL SUB COLOUR) [VIDEO CHROMA BOARD]	This adjustment should be performed after adjusting the Y LEVEL. 1. Input Split color bar signal. 2. Connect the oscilloscope with TP-B. 3. Adjust the voltage between White signal and Blue signal to be 0V using R303 (PAL SUB COLOUR).





No.	Item	Measuring Instrument	Test point	Adjustment part	Description
13	CHROMA CIRCUIT adjustment	Pattern generator Oscilloscope	TP-301 TP-302 PIN ㉚㉙㉛ of IC203 C310 [VIDEO CHROMA BOARD]	T301 (BURST CLEAN) T302 (DL.P) R303 (PAL SUB COLOUR) R351 (PAL DL GAIN)	1. Input Split color bar. 2. Connect the osilloscope to the pin ㉚ of IC203, set the amplitude of waveform to a minimum level by adjusting T301 (BURST CLEAN). 3. Connect CH1 (X – axis) of the oscilloscope with TP-301 and CH2 (Y – axis) of the oscilloscope with TP-302 and set in X – Y mode. 4. Adjust the waveform with R303 (PAL SUB COLOUR) so that the figure is not saturated. 5. Connect the section between the pins ㉙ and ㉛ of IC203 (or between the lead wire C305) with an 8.2kΩ resistor. 6. Short both ends of C310 with wire, etc. 7. Adjust the signal (A) to be (B) using R351 (PAL DL GAIN). 8. Adjust the signal (B) to be (C) using T302 (DL P). 9. Repeat the above stedps roughly once or twice as reguired to obtain the waveform (C). 10. Remove the shorted jumper wire and 8.2kΩ resistor from pins ㉙ and ㉛ of IC203. 11. Adjust the signal (D) to be (E) using T301(BURST CLEAN)

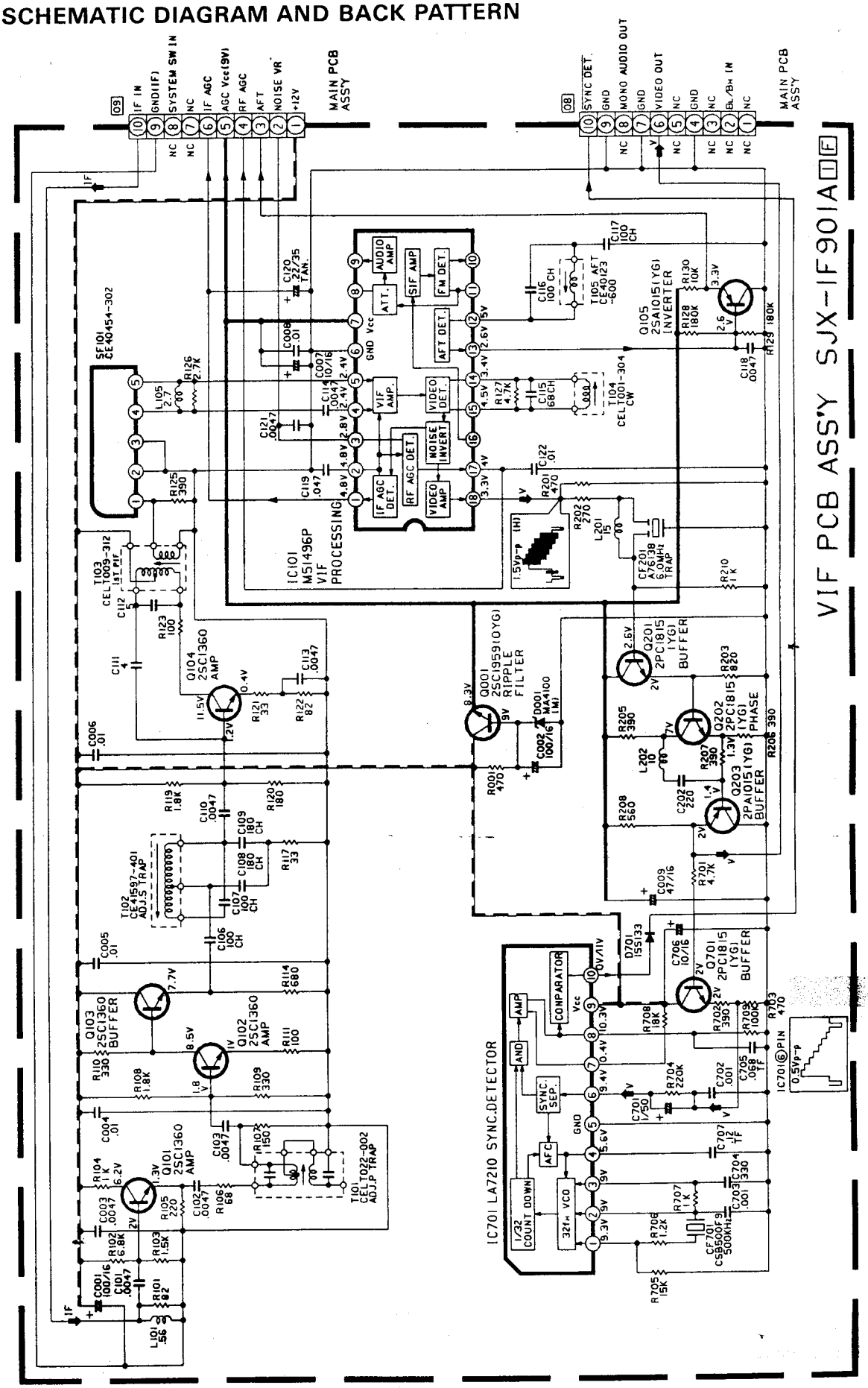


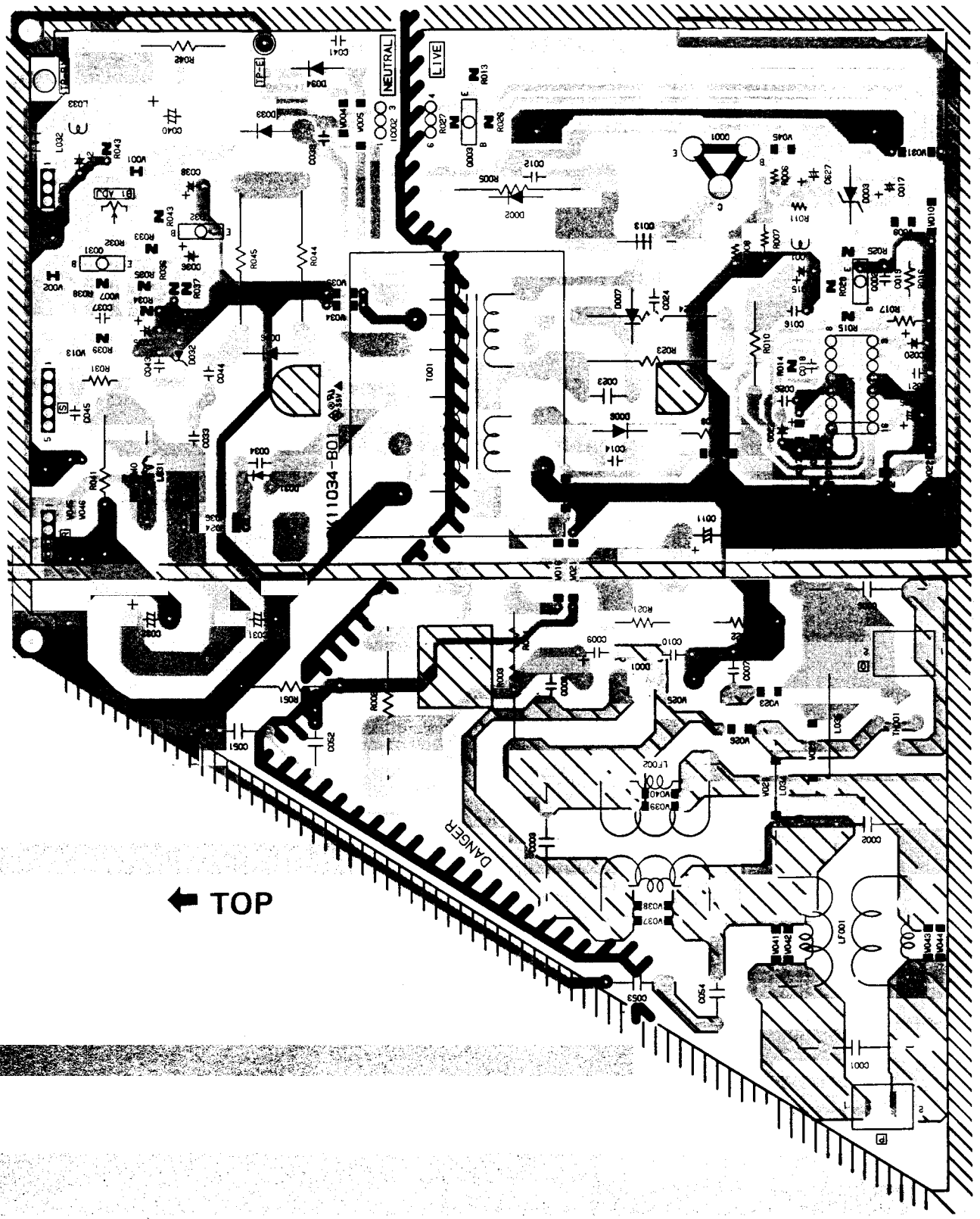


EXPLODED VIEW PARTS LIST

	SYMBOL NO.	PART NO.	PART NAME	REMARKS
⚠	1	A51EBV13X01	PICTURE TUBE	Inc. DY, Magne, Wedge*
⚠	2	CELD018-003J2	DEGAUSSING COIL	L01 *
	3	CH30385-00A	BRAIDED ASSY	
	5	CM22034-C02-E	DOOR	
	6	CM34811-001-E	CONTROL SHEET	*
	7	CM11777-C01-VE	CONTROL BASE	*
	8	CM46617-001-E	POWER KNOB	*
	9	CM46710-001-E	PB SPACER	*
	10	CM11762-A01-E	AV TERMINAL BASE	*
⚠	11	QMP4C00-200J9	POWER CORD	*
	12	CM46618-001-VE	POWER CORD CLAMP	*
	13	CM11771-C01-ME	REAR COVER	*
	14	GBSA4016N	TAPPING SCREW	×9
	15	CM21933-B06-E	RATING LABEL	*
	100	CM11917-B0A-E	F CABI ASSY	
	101	CM45436-00A	DOOR LATCH	*
	102	CM34564-A01-E	POWER KNOB	*
	103	CM30861-074	SPRING	*
	104	CM43094-002	JVC MARK	*
	105	CM46622-001-E	REMOCON WINDOW	*
	200	CM11900-00A-E	SP GRILL ASSY (L)	Include No. 201, 304*
	201	CM11799-B01-E	SP GRILL (L)	~309*
	300	CM11900-00B-E	SP GRILL ASSY (R)	Include No. 301~309*
	301	CM11799-B02-E	SP GRILL (R)	*
	304	GBSB3010Z	TAPPING SCREW	×4
⚠	305	EAS-10P464C	CONE SPEAKER	×2
	306	EAS-3FP10B	CONE SPEAKER	×2
	307	GBSB4012Z	TAPPING SCREW	×8
	308	QFM11HK-473M	M CAP.	×2
	309	CM22035-001	PUNCH METAL	×2

■ VIF PCB SCHEMATIC DIAGRAM AND BACK PATTERN





● When measuring voltage values and waveforms in power supply circuit, use the separate transformer.

CRT SOCKET PC BOARD ASS'Y (SJX-3902A-U2)

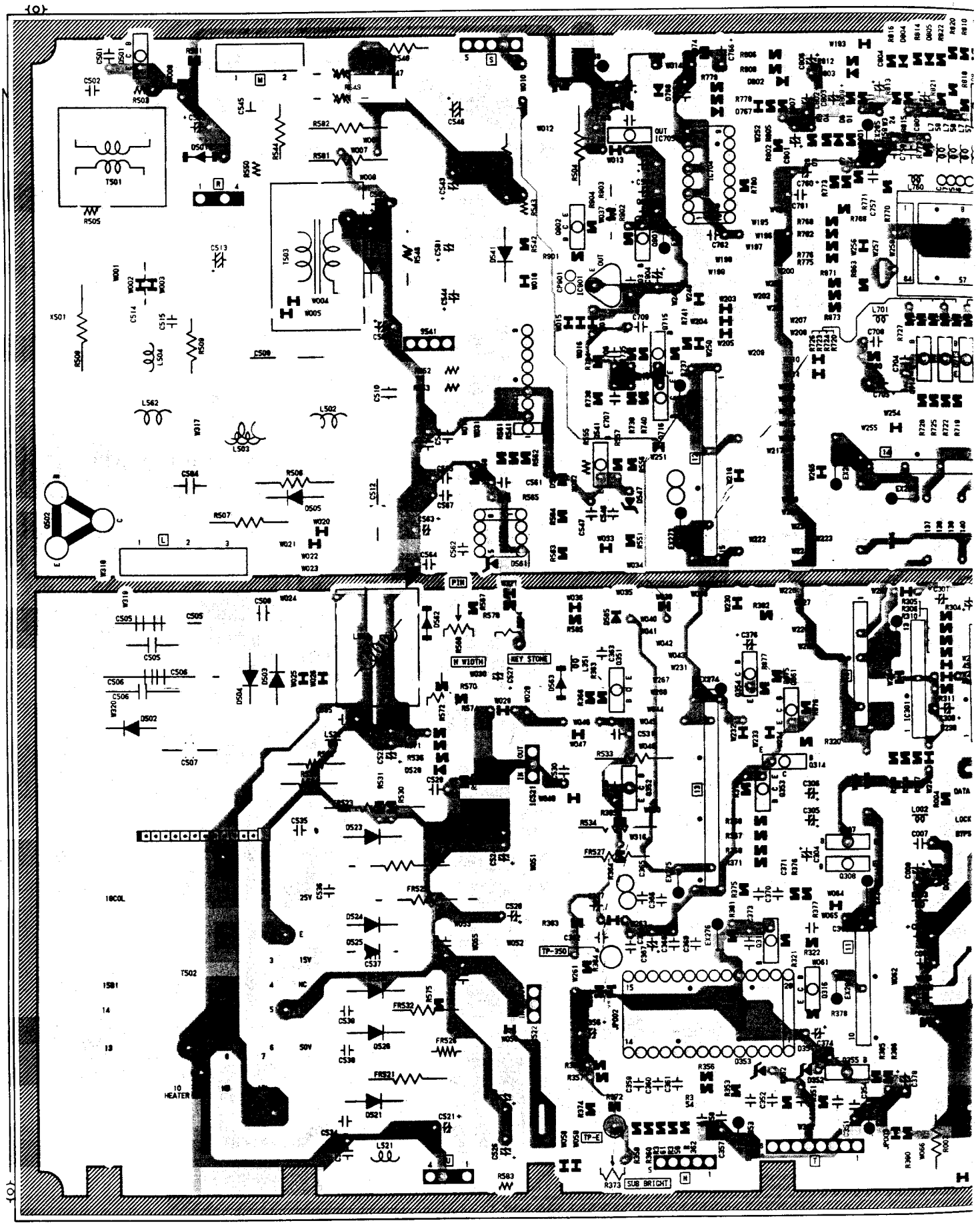
SYMBOL NO.	PART NO.	PART NAME	REMARKS			
VARIABLE R						
R3103	QVPC802-102H	V R (G. DRIVE)	1kΩ B			
R3106	QVPC802-102H	V R (R. DRIVE)	1kΩ B			
RESISTOR						
R3109	QRG019J-563S	OM R	56kΩ	1W	J	
R3110	QRG019J-563S	OM R	56kΩ	1W	J	
R3111	QRG019J-563S	OM R	56kΩ	1W	J	
CAPACITOR						
C3106	QFH53BK-223M	MM CAP.	0.022μF	1250V	K	
C3107	QFH52EJ-104M	MM CAP.	0.1μF	250V	J	
C3114	QEN61HM-474Z	BP E CAP.	0.47μF	50V	M	*
COIL						
L3101	QQL043K-221	PEAKING COIL	220μH			
DIODE						
D3101	1SS252-T2	SI. DIODE				*
D3102	1SS252-T2	SI. DIODE				*
D3103	1SS252-T2	SI. DIODE				*
D3104	1SS252-T2	SI. DIODE				*
D3106	1SS252-T2	SI. DIODE				*
D3107	1SS252-T2	SI. DIODE				*
D3108	1SS252-T2	SI. DIODE				*
D3110	RD5.6ES (B3) -T2	ZENER DIODE				*
TRANSISTOR						
Q3102	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q3104	2PC1815 (YG) -T	SI. TRANSISTOR				*
Q3105	2PC1815 (YG) -T	SI. TRANSISTOR				*
IC						
IC3101	TEA5101A	I. C.				*
OTHERS						
⚠	CE41882-001J1	CRT SOCKET				*

POWER PC BOARD ASS'Y (SJX-2901A-U2)

SYMBOL NO.	PART NO.	PART NAME	REMARKS			
VARIABLE R						
R2032	QVPA603-332AZ	V R (B1 ADJ.)	3.3kΩ B			
RESISTOR						
R2002	QRF104K-3R9	UNF R	3.9Ω	10W	K	
R2003	QRG039J-183	OM R	18kΩ	3W	J	
R2005	QRF154J-221	UNF R	220Ω	15W	J	
R2006	QRD123J-101SX	C R	100Ω	1/2W	J	*
R2007	QRM055K-R15	MP R	0.15Ω	5W	K	
R2008	QRD123J-1R5SX	C R	1.5Ω	1/2W	J	*
R2009	QRX019J-2R2	MF R	2.2Ω	1W	J	
R2010	QRX029J-6R8	MF R	6.8Ω	2W	J	
R2011	QRD123J-180SX	C R	18Ω	1/2W	J	*
R2016	QRV141F-5602Y	MF R	56kΩ	1/4W	F	*
R2017	QRV141F-1503AY	MF R	150kΩ	1/4W	F	*
R2041	QRG039J-153	OM R	15kΩ	3W	J	
R2042	QRG029J-102	OM R	1kΩ	2W	J	
R2044	QRG039J-181	OM R	180Ω	3W	J	
R2045	QRG039J-181	OM R	180Ω	3W	J	
⚠ R2051	QRZ0057-825	C R	8.2MΩ	1W	J	
CAPACITOR						
⚠ C2002	QFZ9022-104M	M F CAP.	0.1μFAC250V		M	
C2006	QFZ9022-473M	M F CAP.	0.047μFAC250V		M	
⚠ C2007	QCZ9034-472A	C CAP.	4700pFAC400V		P	
⚠ C2008	QCZ9034-472A	C CAP.	4700pFAC400V		P	
⚠ C2009	QCZ9034-472A	C CAP.	4700pFAC400V		P	
⚠ C2010	QCZ9034-472A	C CAP.	4700pFAC400V		P	
C2011	QEZ0167-227J8	E CAP.	220μF	160V	±3%	*
C2013	QFZ00R1-150JS	M P P CAP.	15pF	1600V	±3%	
C2015	QEHC1EM-477MZ	E CAP.	470μF	25V	M	*
C2017	QEM51VM-476M	E CAP.	47μF	35V	M	
C2021	QFP31HG-102S	PP CAP.	1000pF	50V	G	
C2031	QEH52CM-107M	E CAP.	100μF	160V	M	
C2032	QEH52CM-107M	E CAP.	100μF	160V	M	
C2033	QCZ0128-332A	C CAP.	3300pF	500V	K	
C2034	QCZ0122-561A	C CAP.	560pF	2kV	K	
C2038	QEHC1EM-108MZ	E CAP.	1000μF	25V	M	*
C2040	QEHB1HM-228M	E CAP.	2200μF	50V	M	
C2042	QEN61CM-106Z	BP E CAP.	10μF	16V	M	*
C2044	QCZ0128-332A	C CAP.	3300pF	500V	K	
⚠ C2052	QCZ9036-332M	C CAP.	3300pFAC400V		M	
⚠ C2053	QCZ9036-471M	C CAP.	470pFAC400V		K	
TRANSFORMER						
⚠ T2001	CE41904-002J1	S M TARNSF				*
COIL						
L2001	CELC005-2R5	CHOKE COIL	2.5μH			
L2031	CJ30030-046	HEATER CHOKE				
L2032	CELC002-470	CHOKE COIL	47μH			
L2033	CELC002-470	CHOKE COIL	47μH			
L2034	CELC026-100	CHOKE COIL	10μH			
L2035	CELC026-100	CHOKE COIL	10μH			
DIODE						
⚠ D2001	D3SB60	BRIDGE DIODE				
D2002	BYD33M-T3	SI DIODE				*
D2003	RD3.0F (B2) -T3	ZENER DIODE				*
D2006	BYD33D-T3	SI DIODE				*
D2031	BY229-600	SI DIODE				*

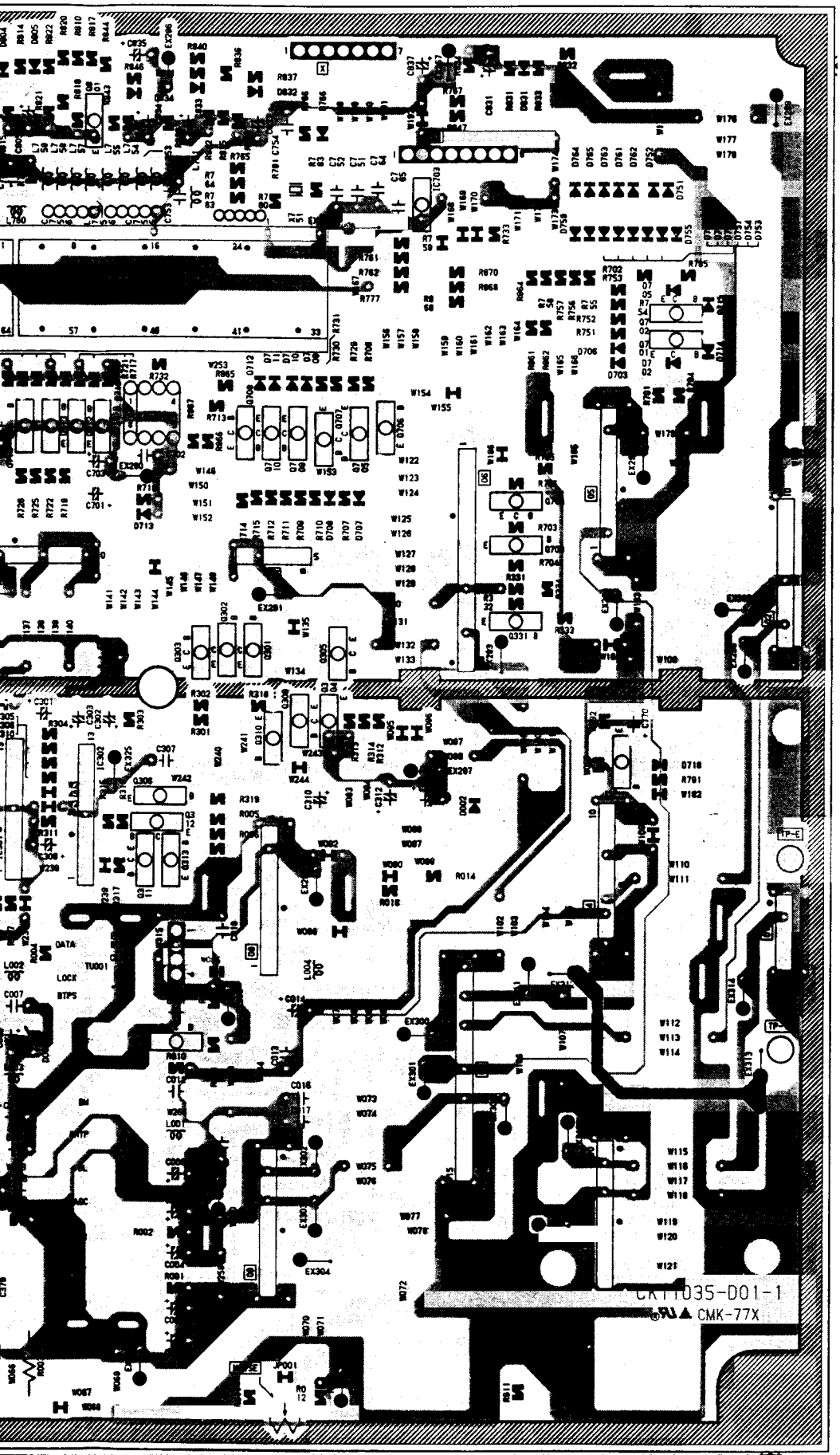
■ MAIN PCB PATTERN

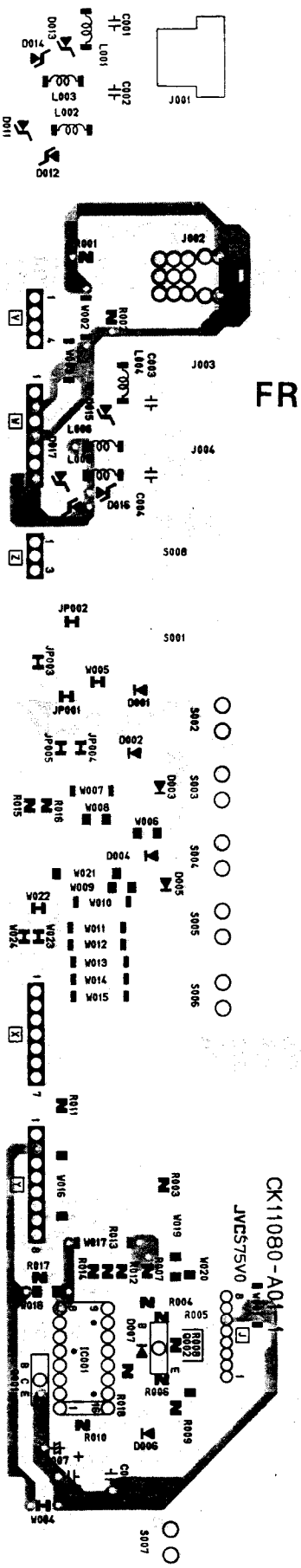
FRONT

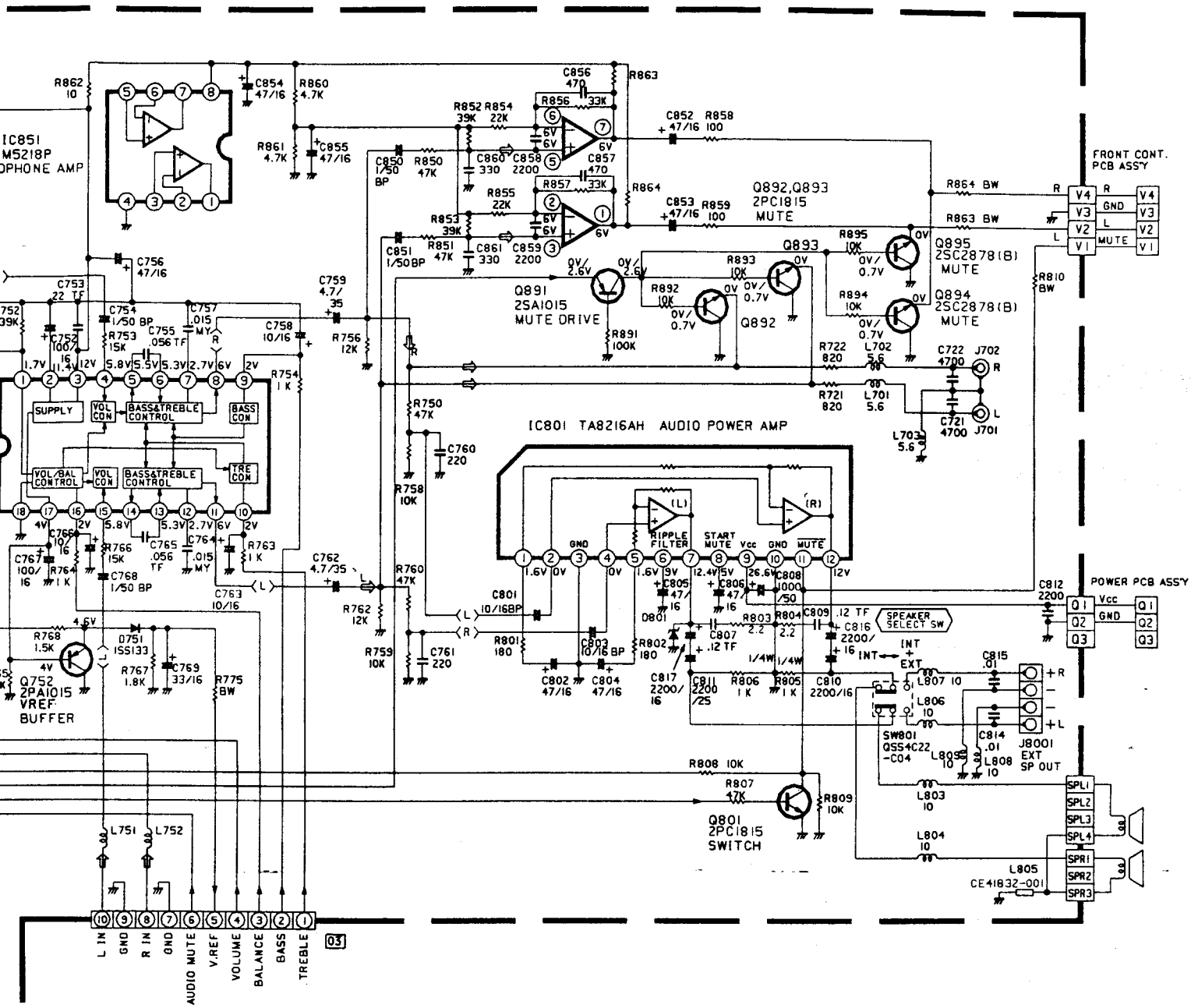


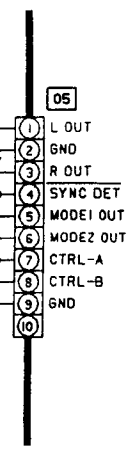
: solder side (signal etc.) : solder side (ground) : part side (signal)

■ CONTROL PCB BACK PATTERN





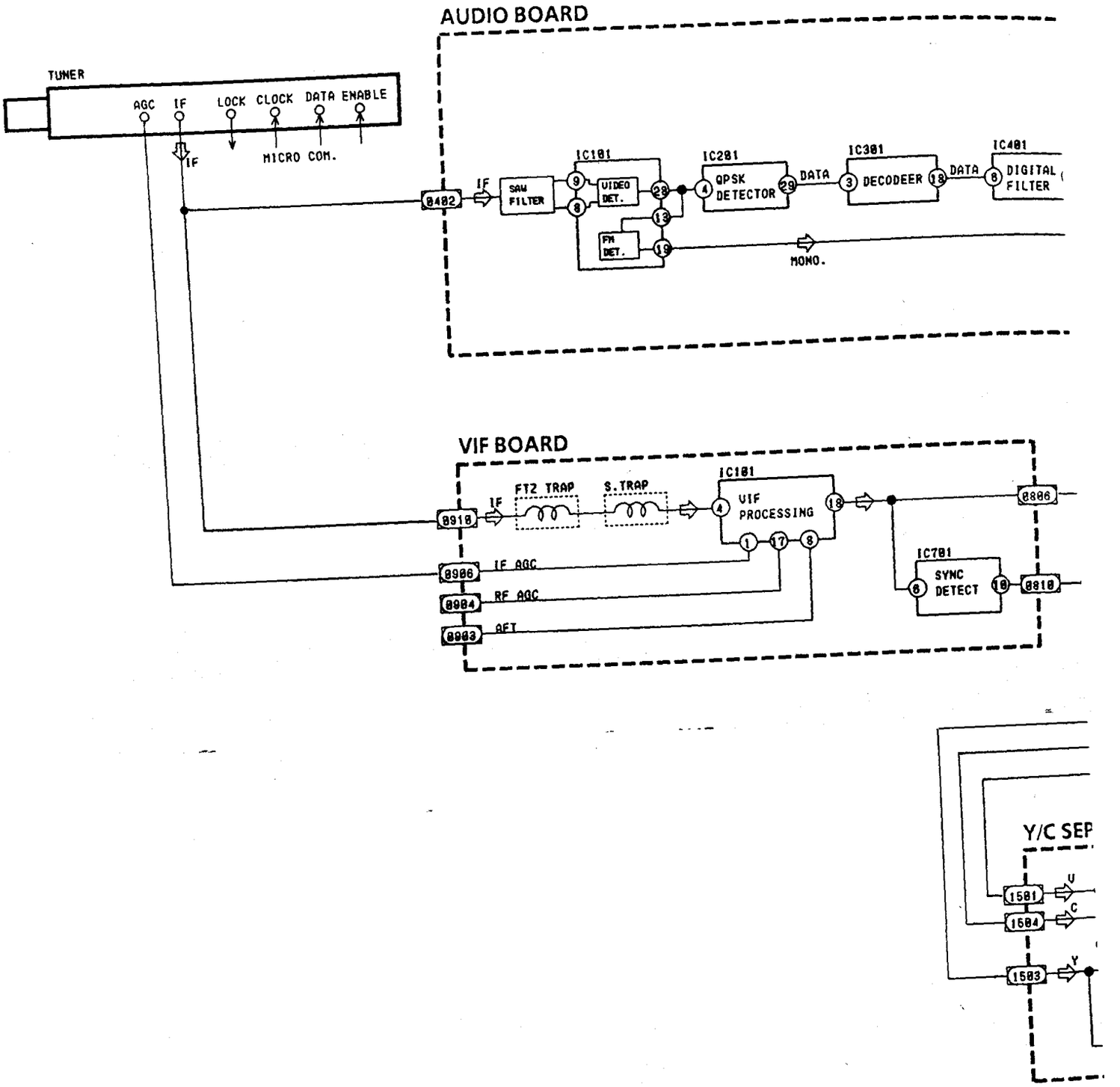


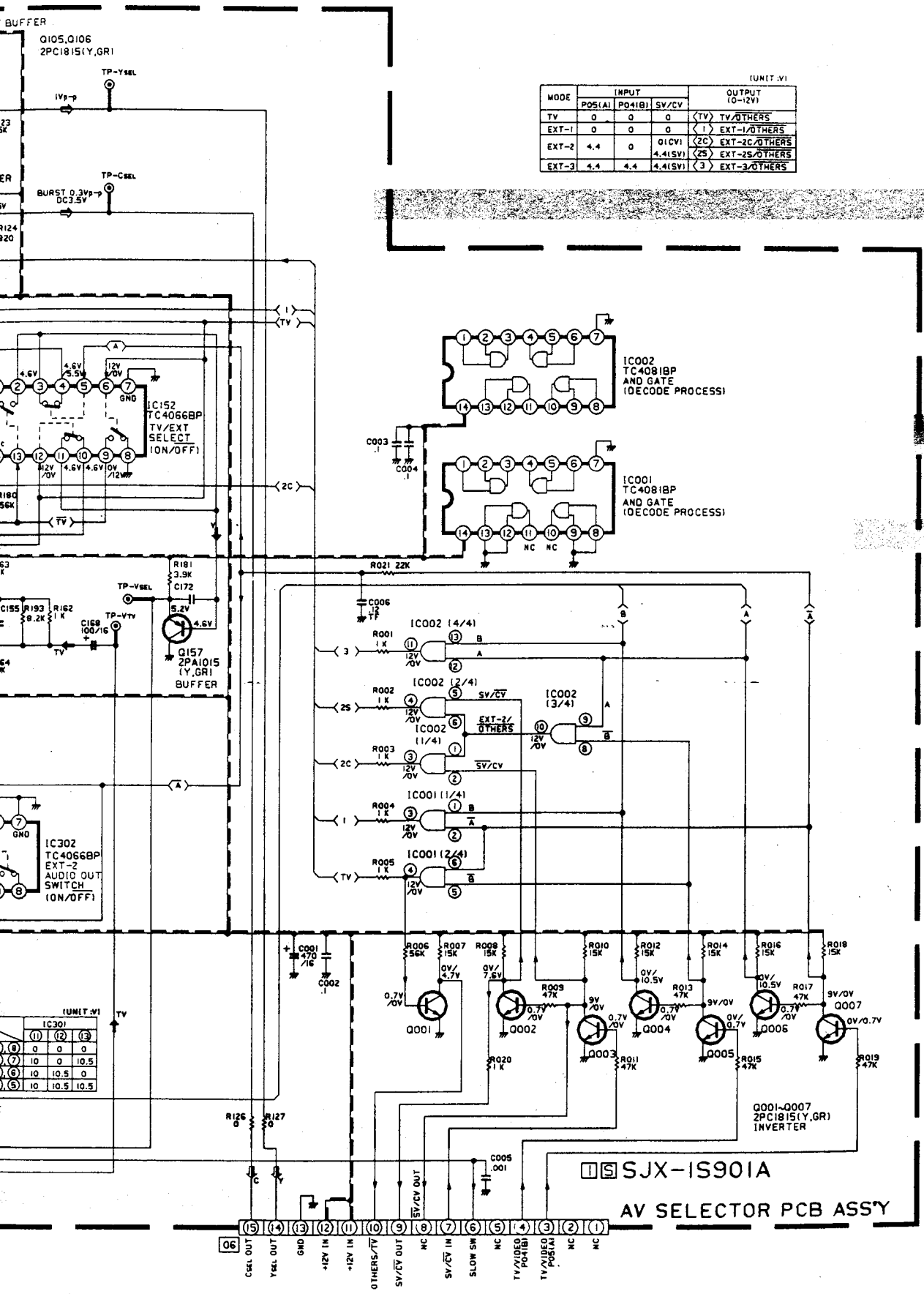


	05-5	05-6
ST	4.4V	4.4V
MI	4.4V	0V
MI M2	0V	4.4V
NORM	0V	0V

	05-8	05-7
MONO.FM	0V	0V
MI	4.4V	0V
M2	0V	4.4V
ST	4.4V	4.4V

4. BLOCK DIAGRAM





(UNIT:V)

MODE	INPUT P05(A)	INPUT P04(B)	INPUT SV/CV	OUTPUT (0~12V)
TV	0	0	0	⟨TV⟩ TV/OTHERS
EXT-1	0	0	0	⟨1⟩ EXT-1/OTHERS
EXT-2	4.4	0	0(CV)	⟨2C⟩ EXT-2C/OTHERS
			4.4(SV)	⟨2S⟩ EXT-2S/OTHERS
EXT-3	4.4	4.4	4.4(SV)	⟨3⟩ EXT-3/OTHERS

(UNIT:V)

	IC301 (11)	(12)	(13)
(8)	0	0	0
(7)	10	0	10.5
(6)	10	10.5	0
(5)	10	10.5	10.5